

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

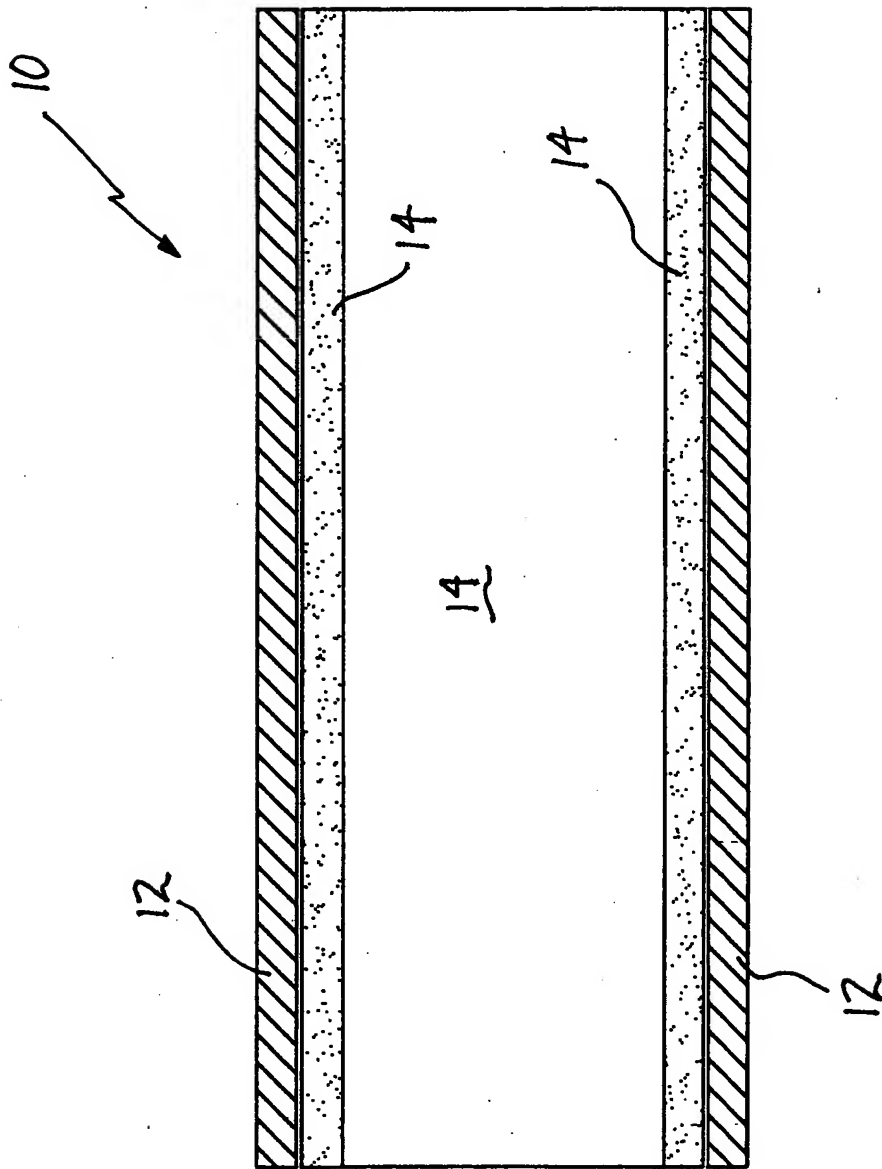


Fig 1

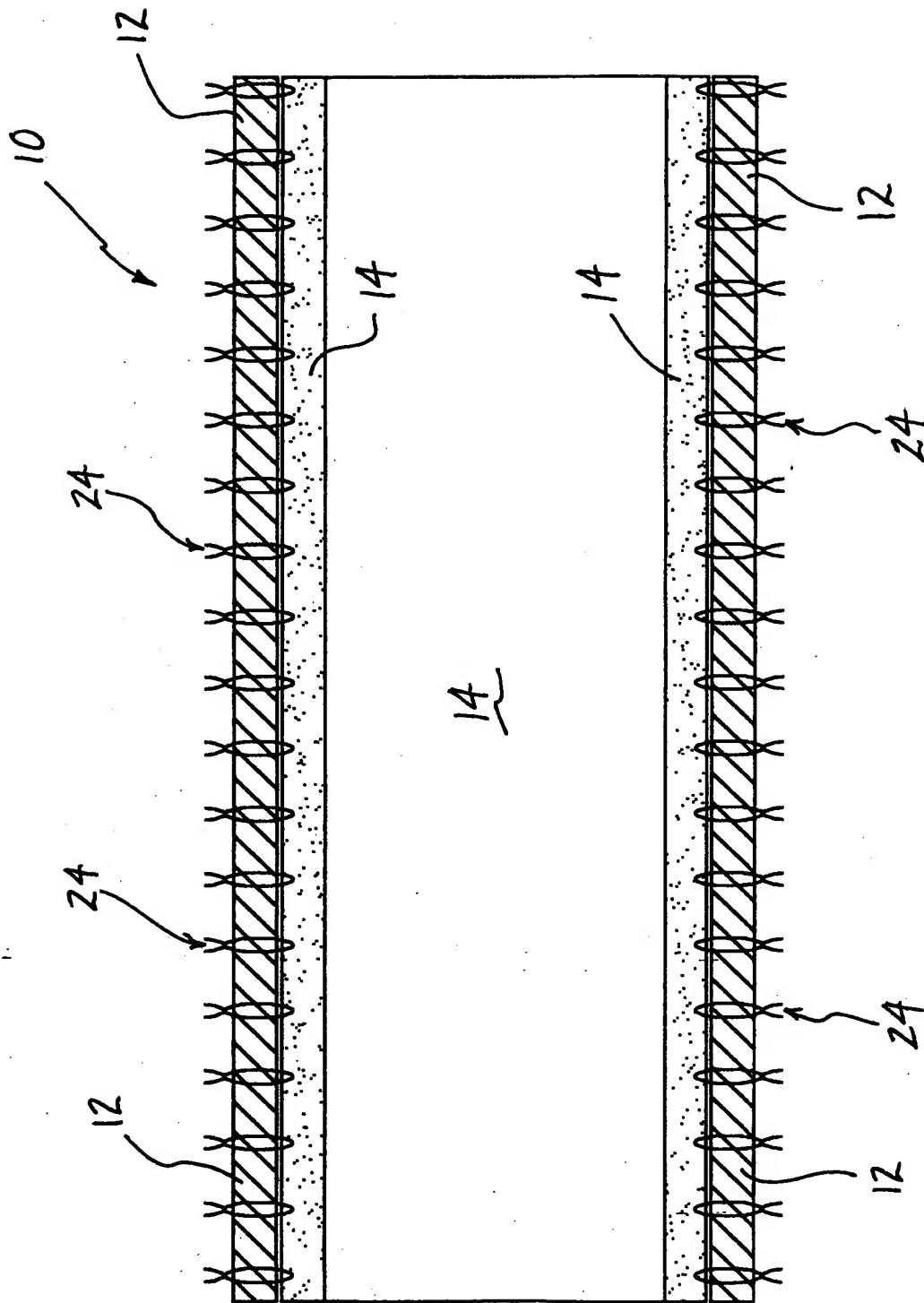


Fig 2

2/48

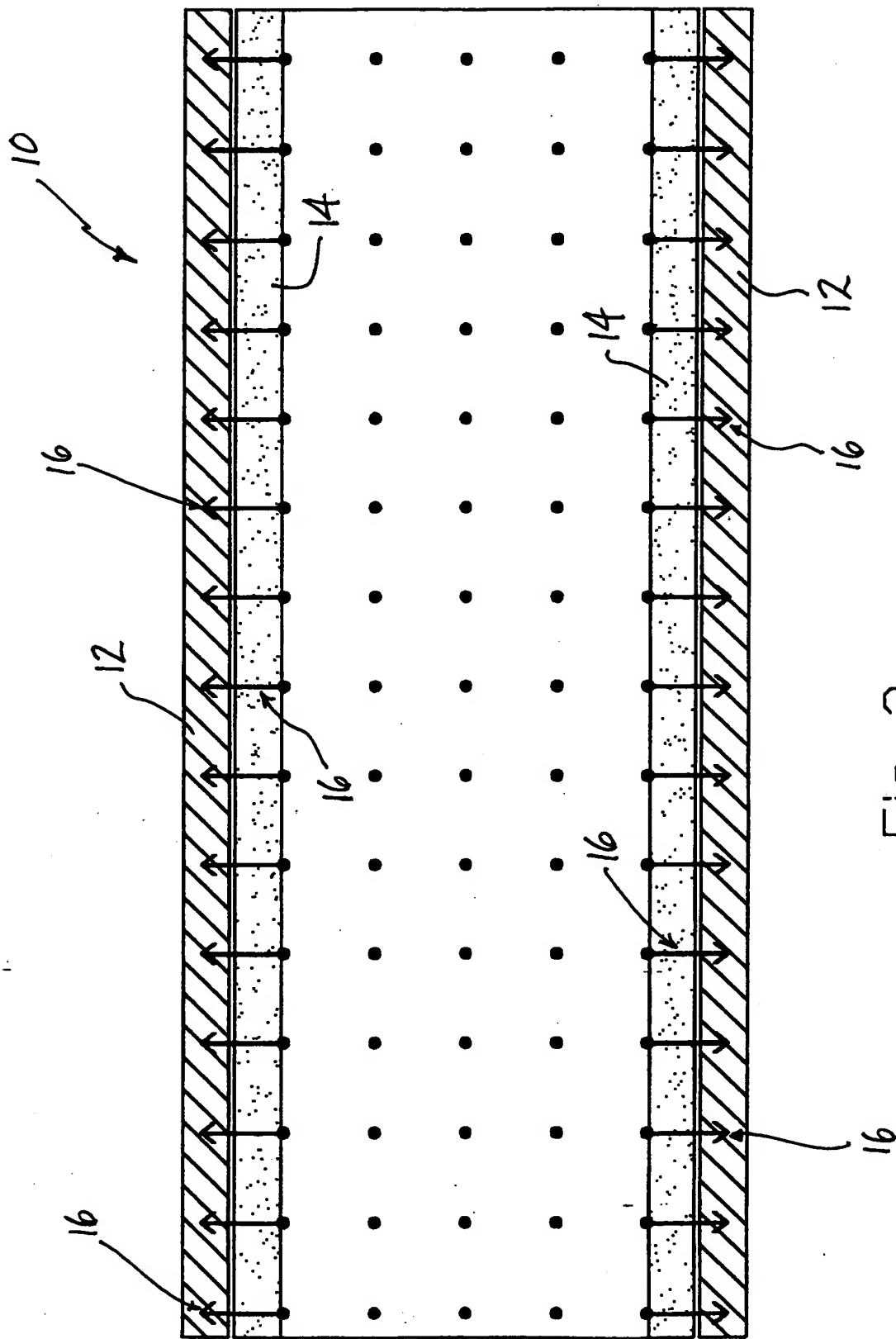


Fig 3

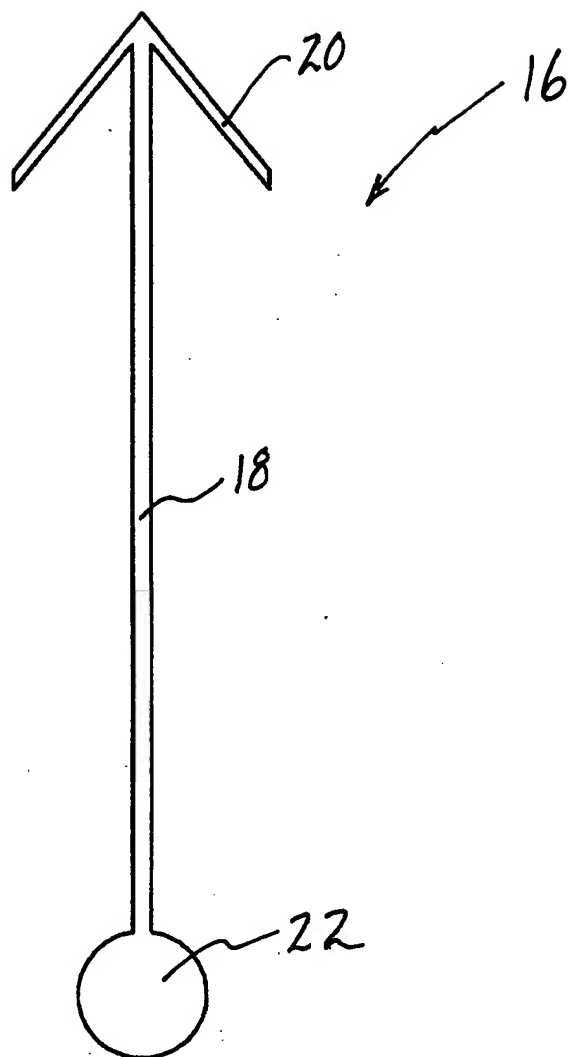


Fig 4

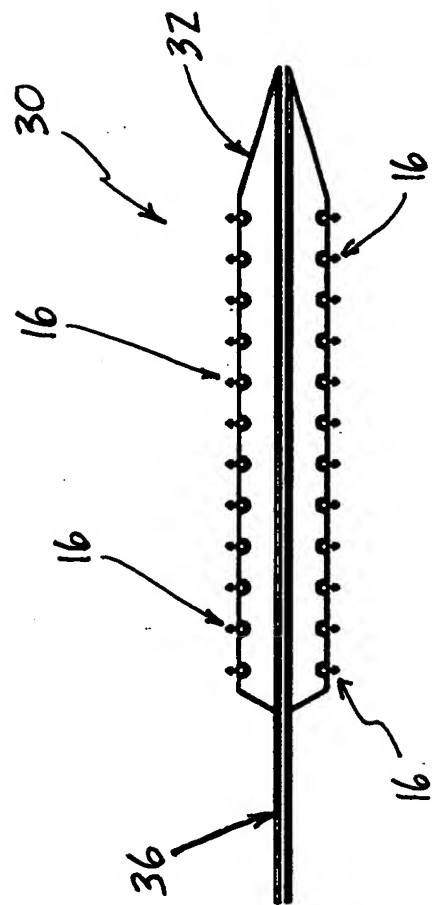


Fig 5

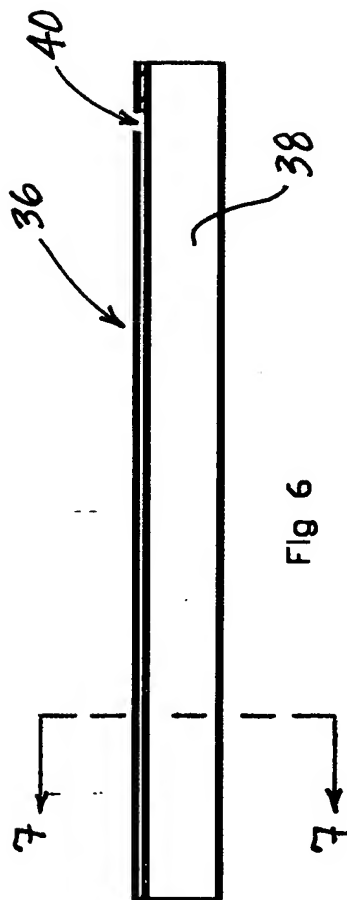


Fig 6

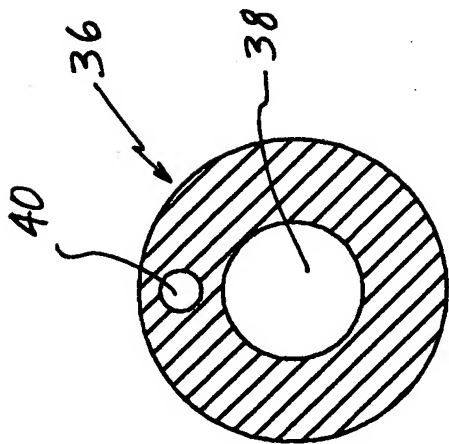


Fig 7

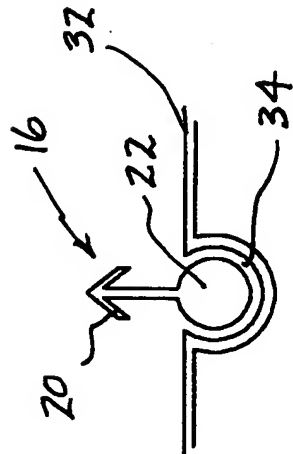


Fig 8

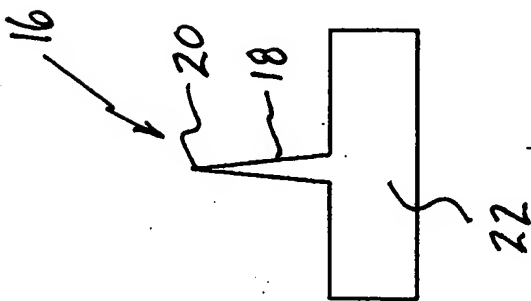
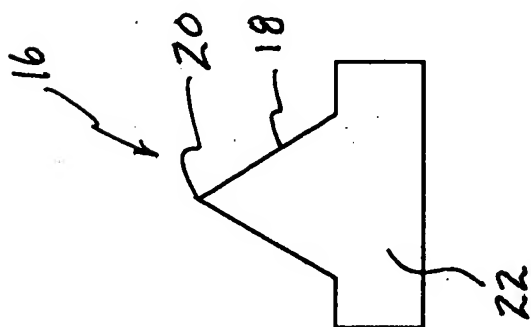
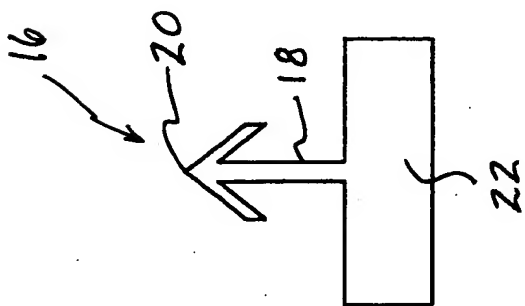
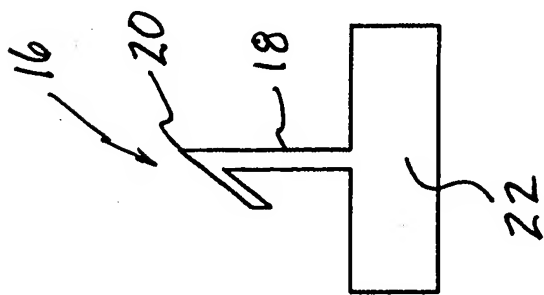
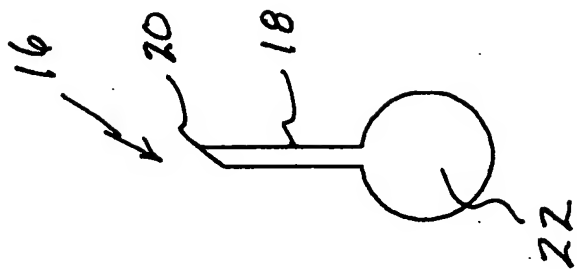


Fig 9

6/48

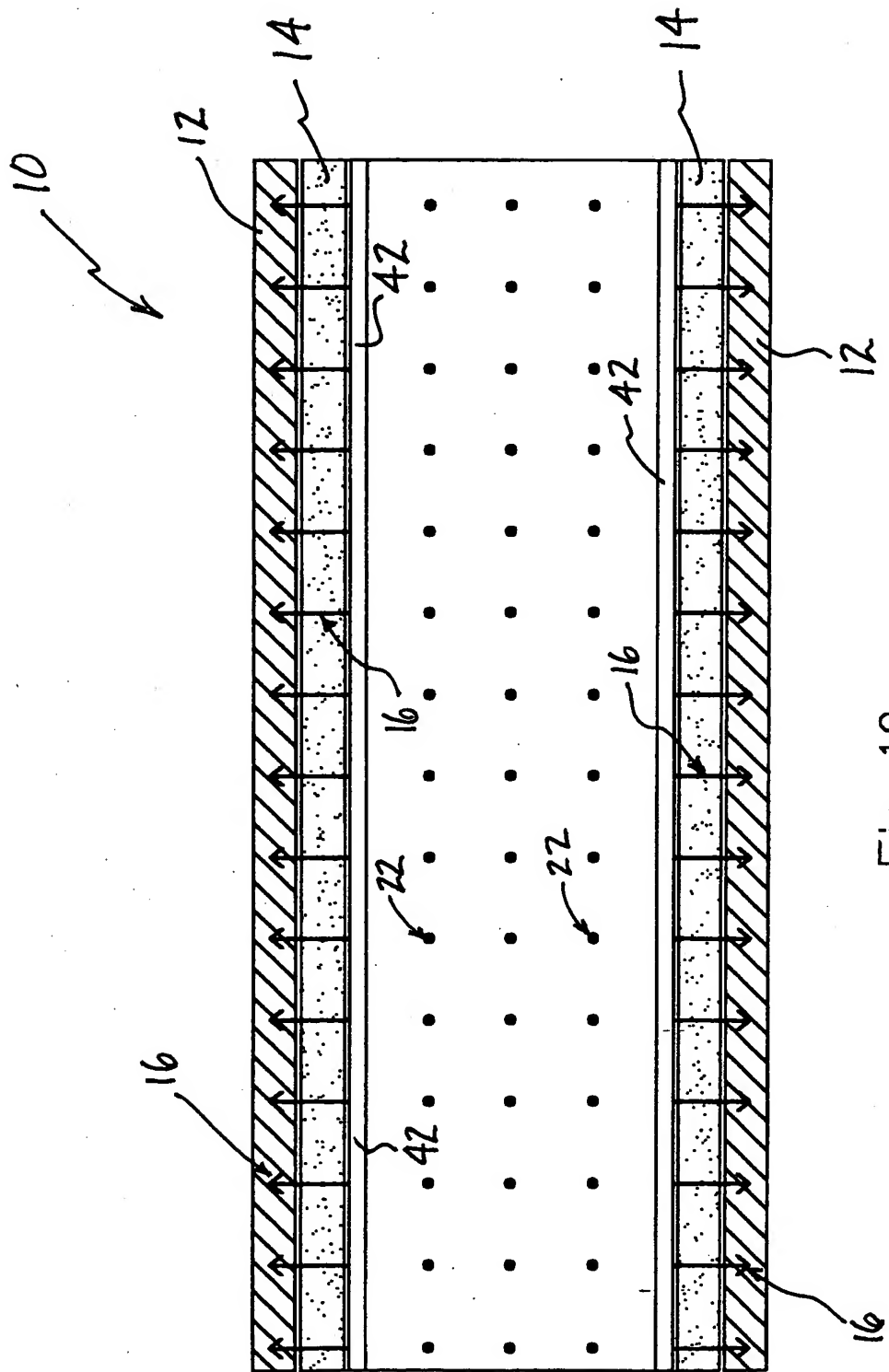


Fig 10

7/48



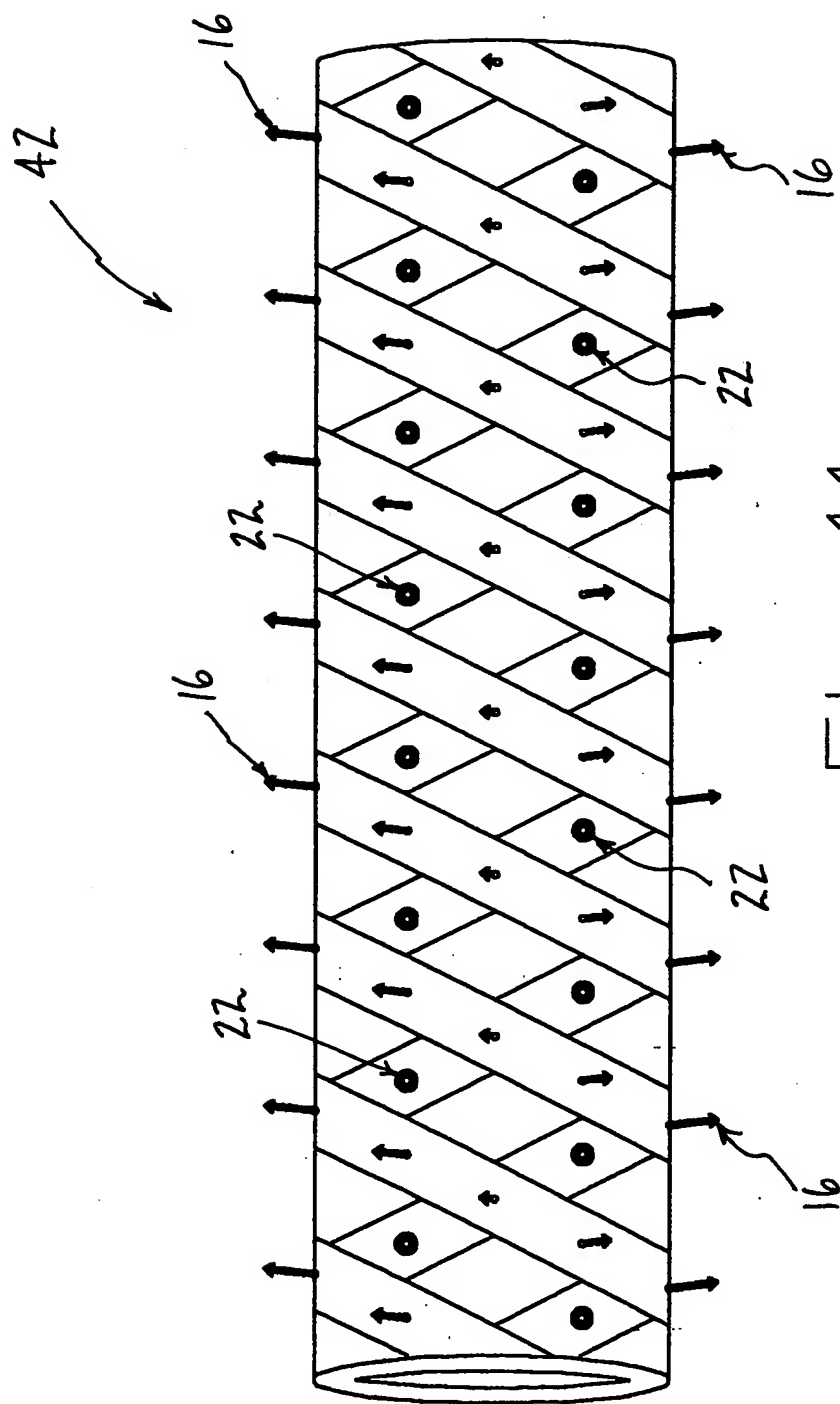


FIG 11

8/48

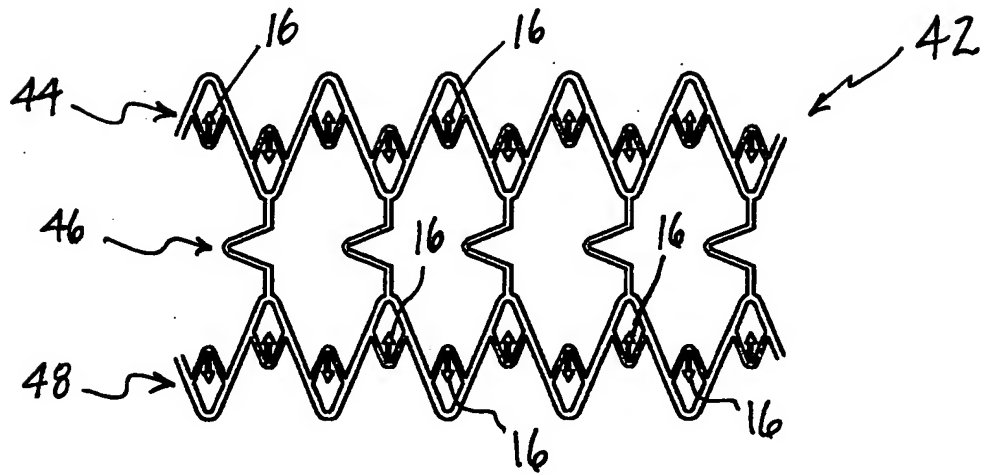


Fig 12

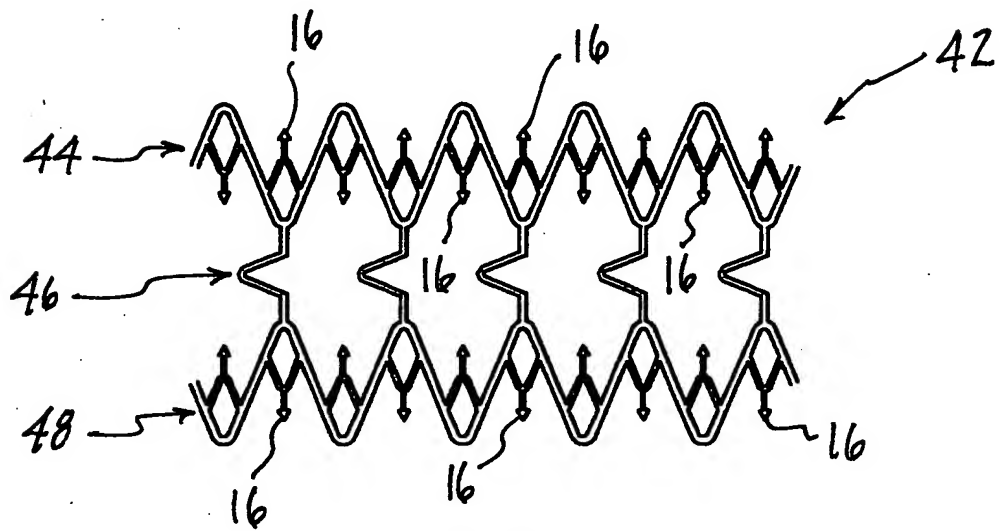


Fig 13

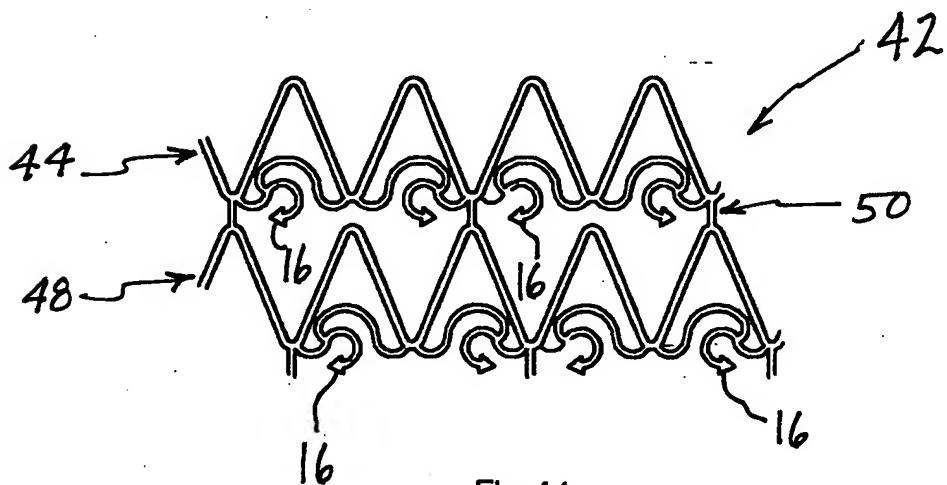


Fig 14

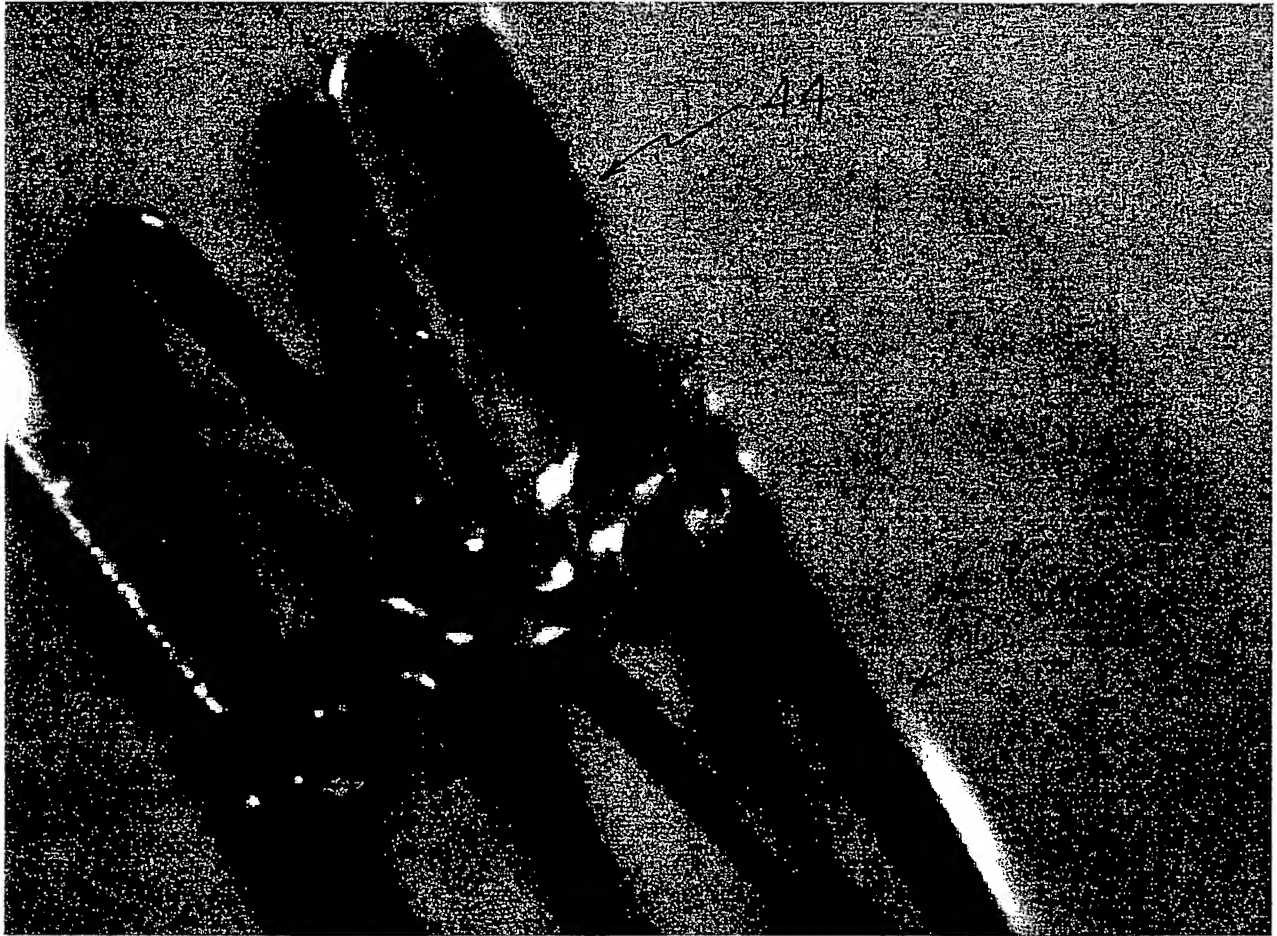


FIG. 15

10/48

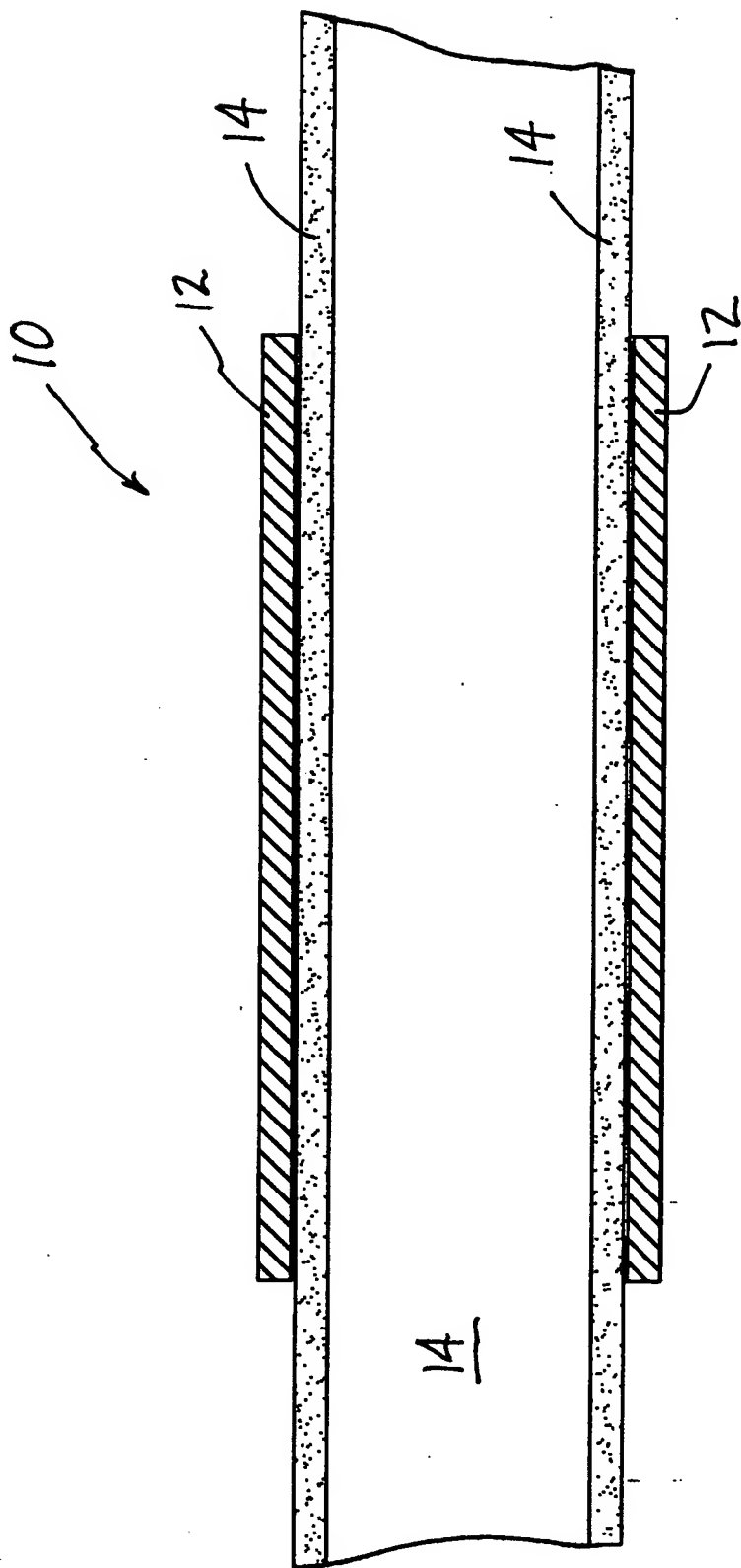


Fig 16

11/48

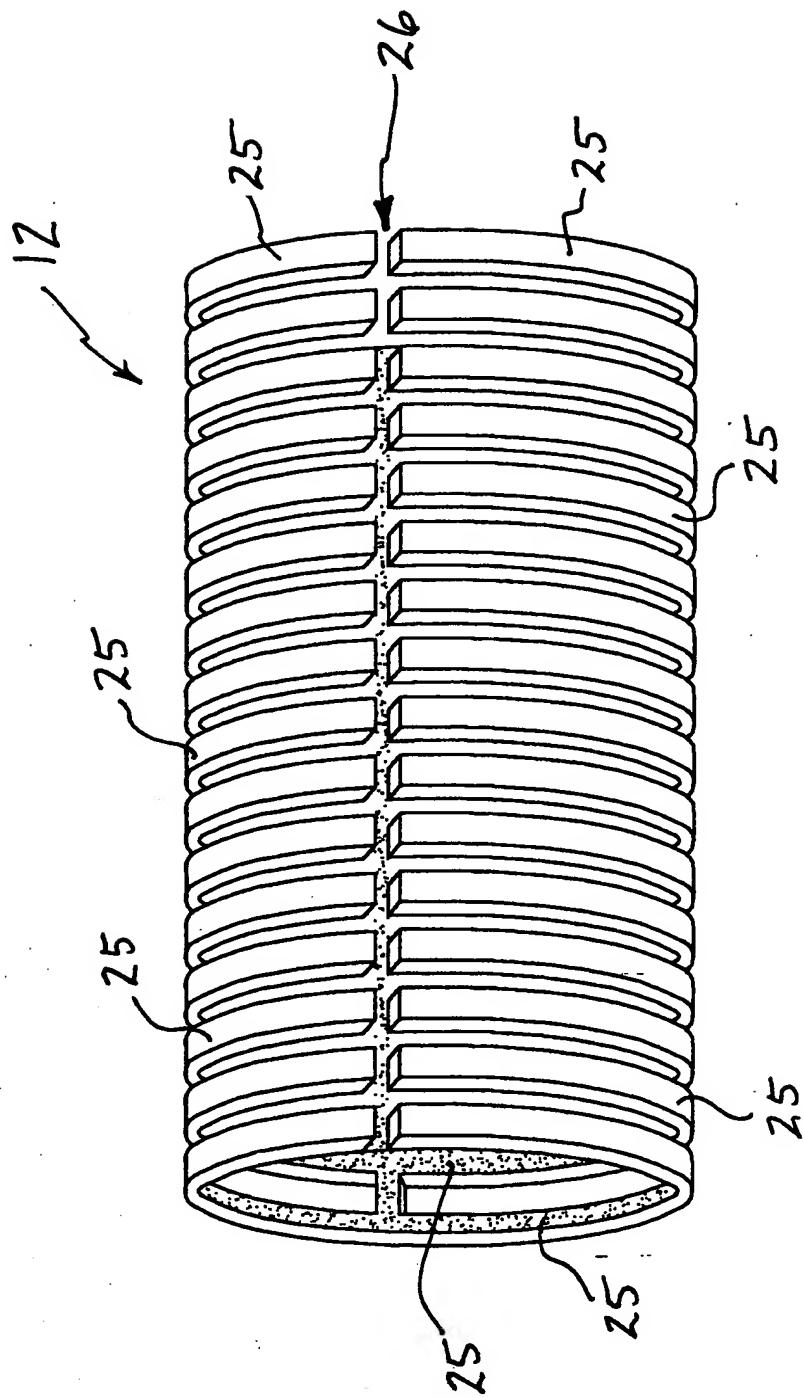


Fig 17

12/48

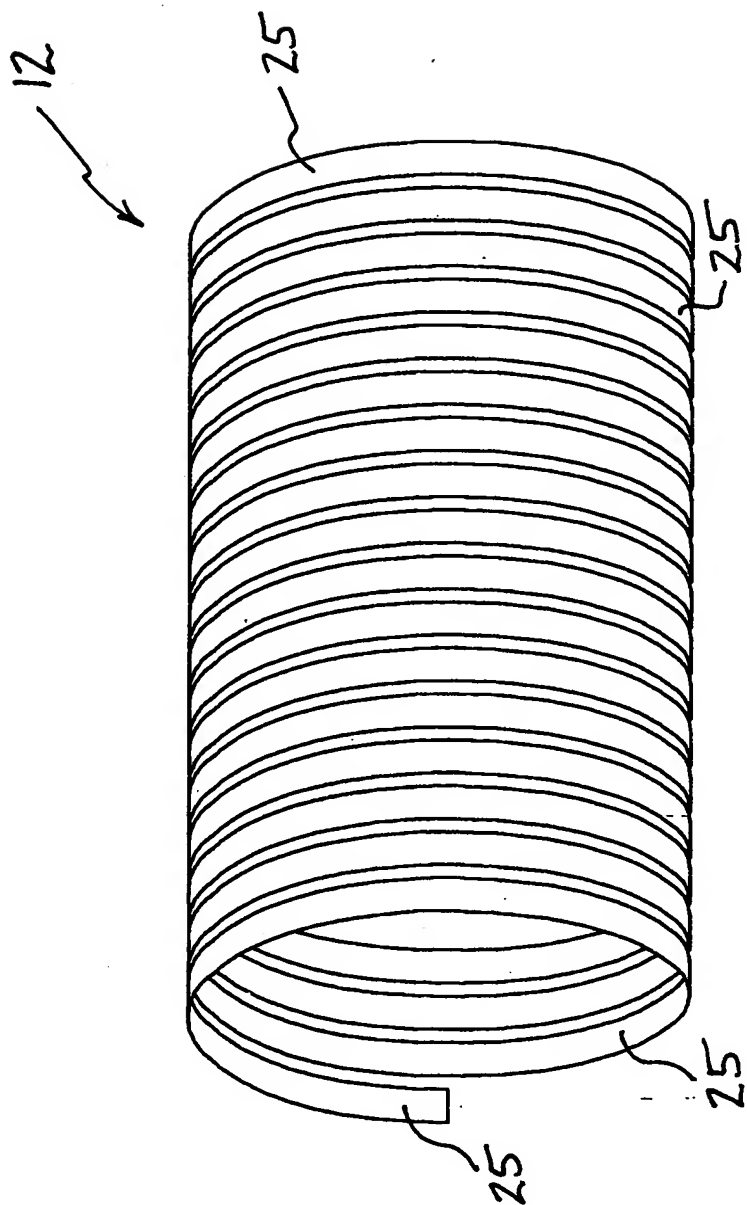


FIG 18

13/48

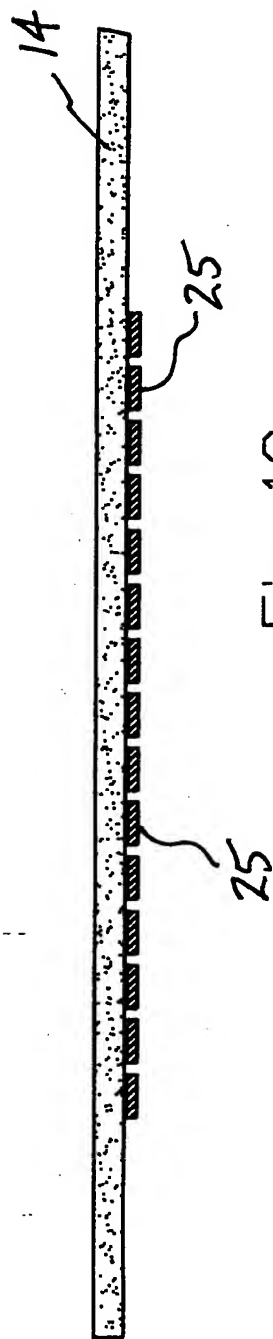
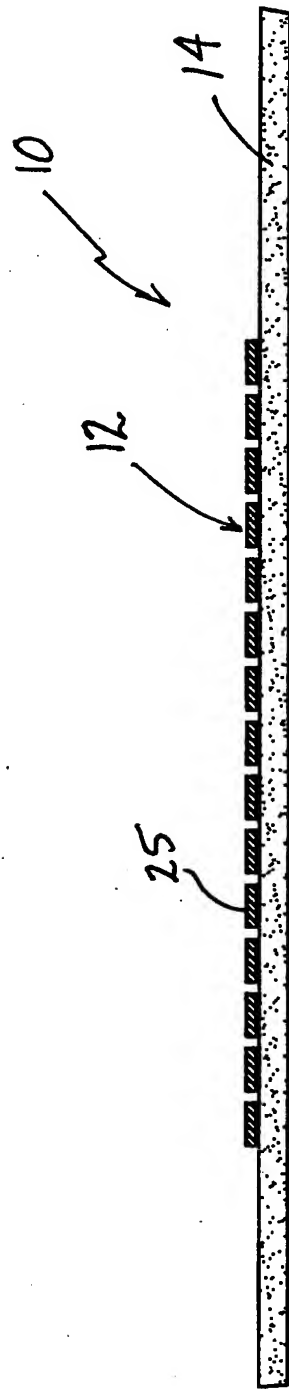


Fig 19

14/48

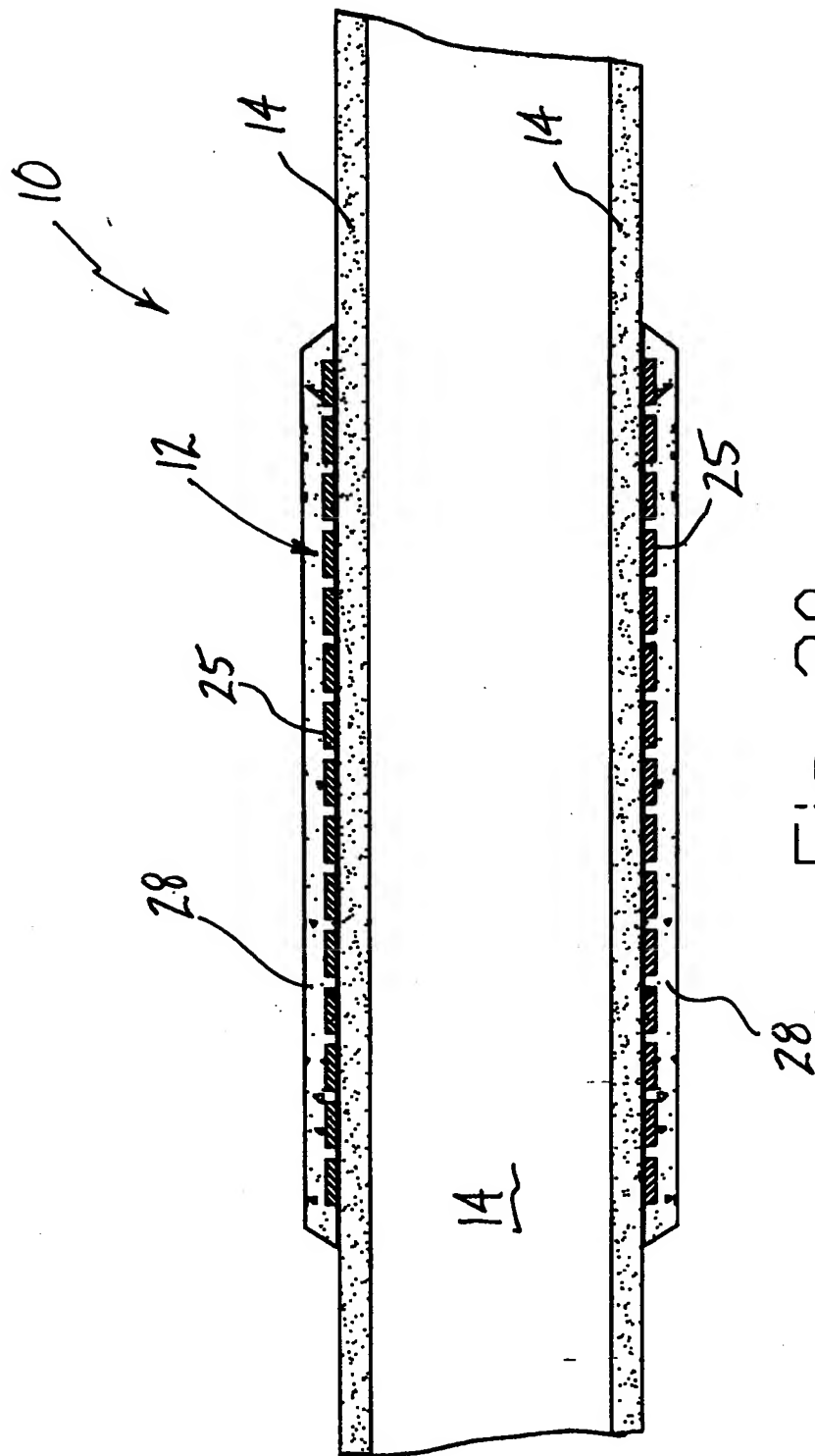


Fig 20

15/40



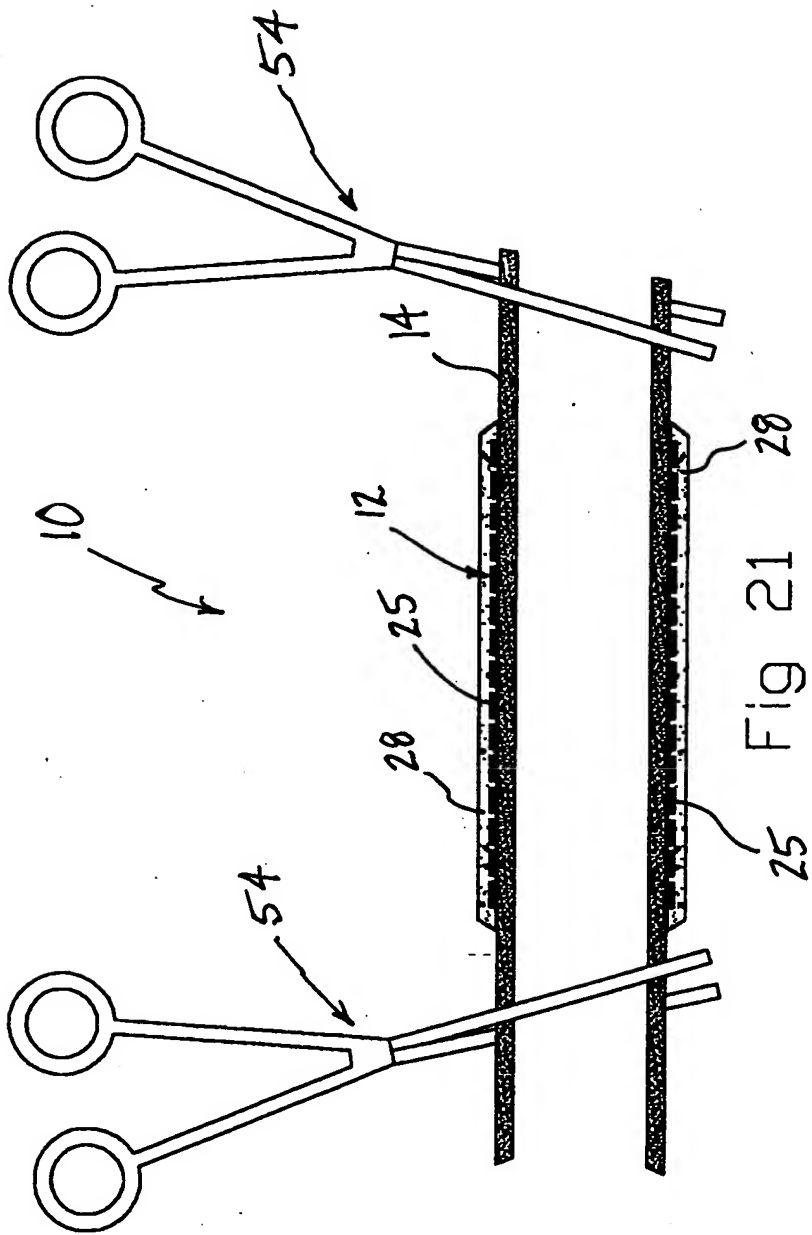
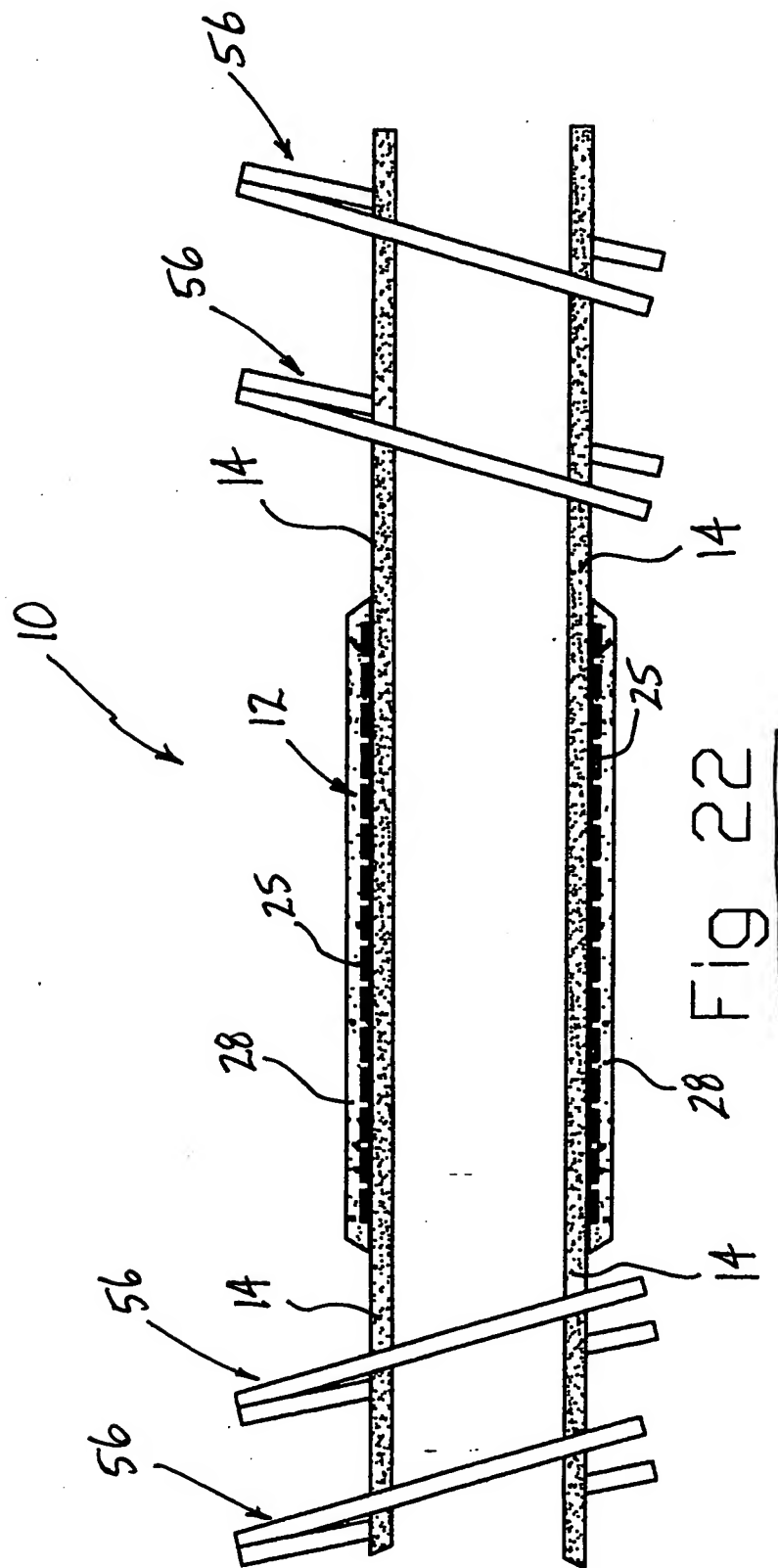


Fig 21

16/48



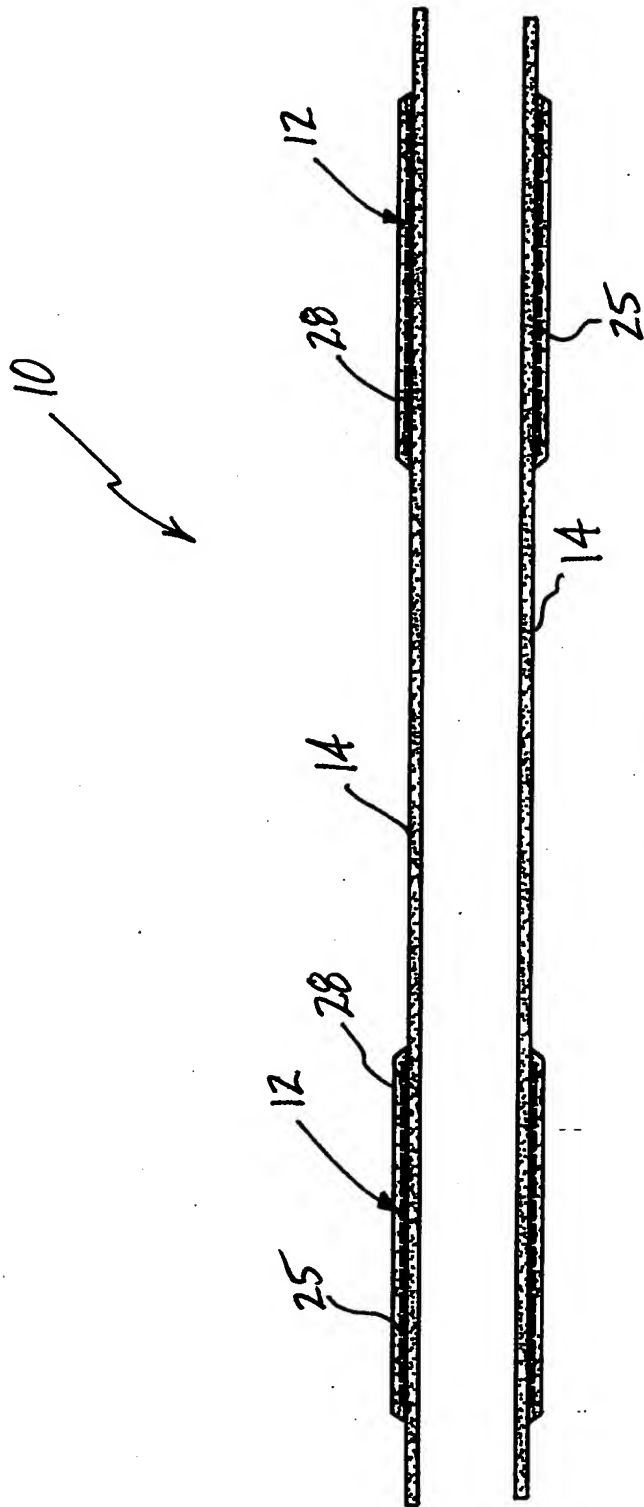


Fig 23

18/48

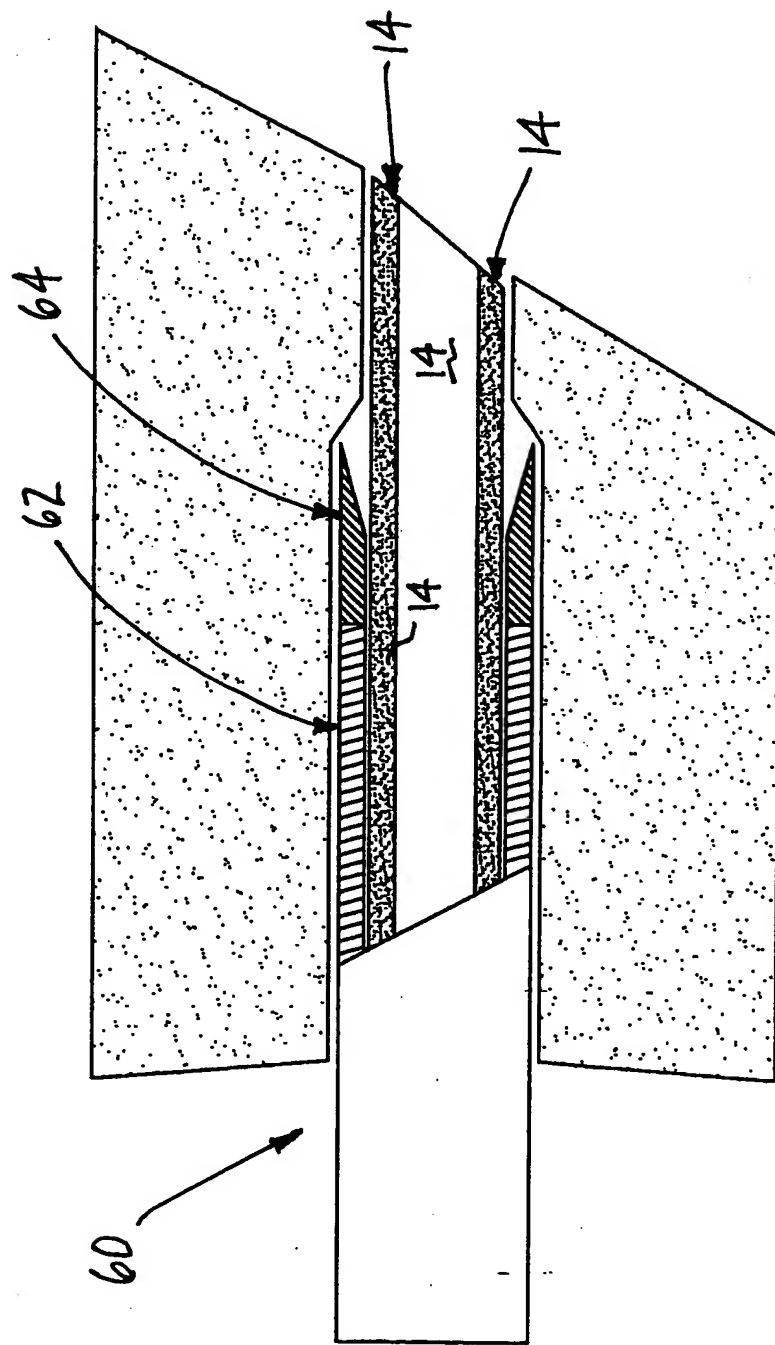


Fig 24

19/48

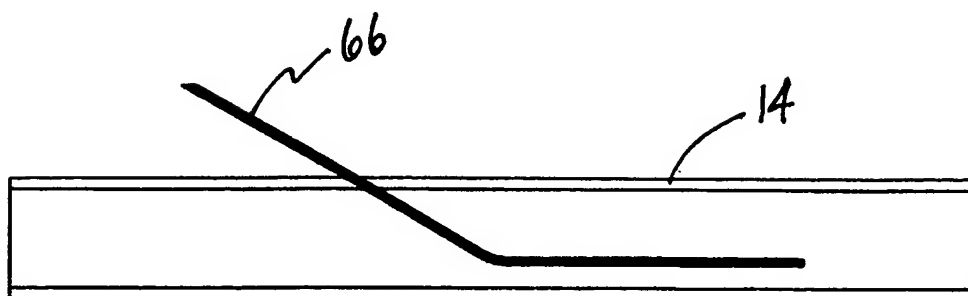


Fig 25

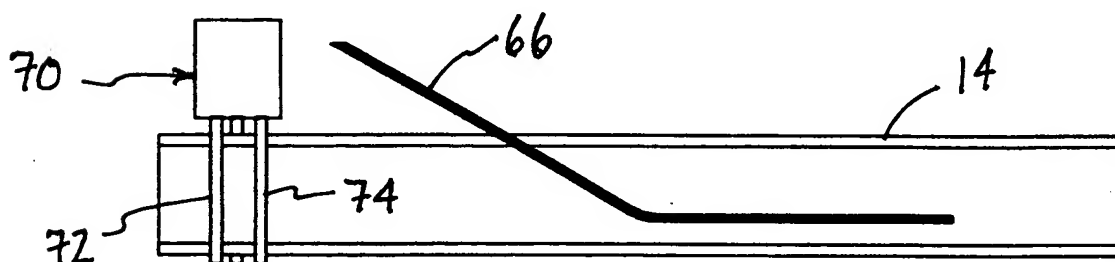


Fig 26

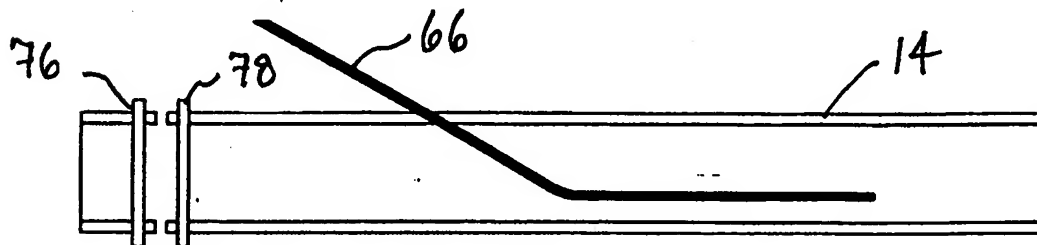
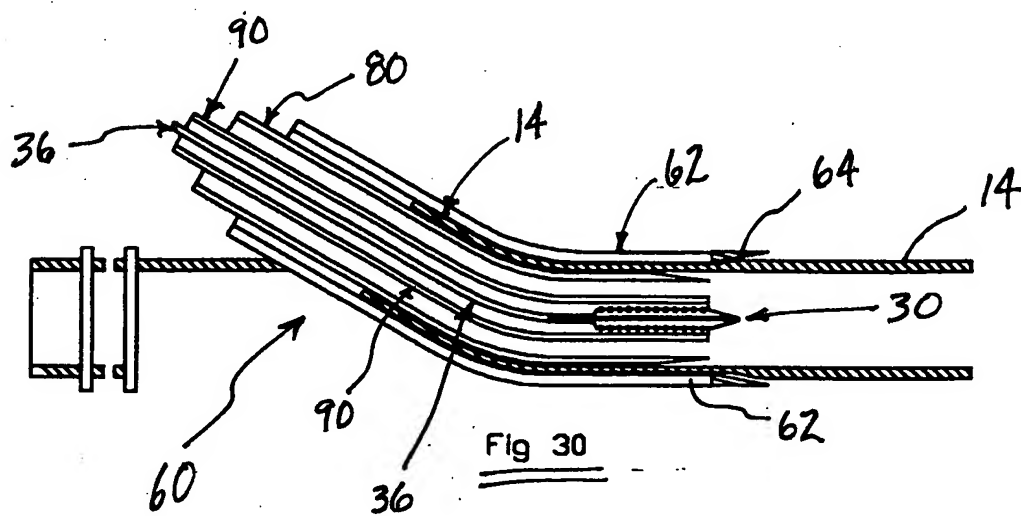
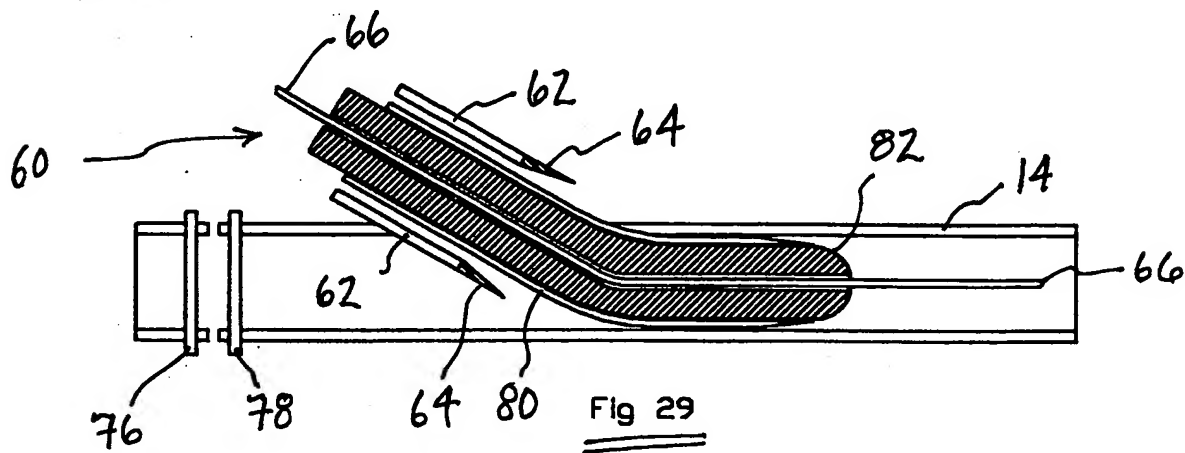
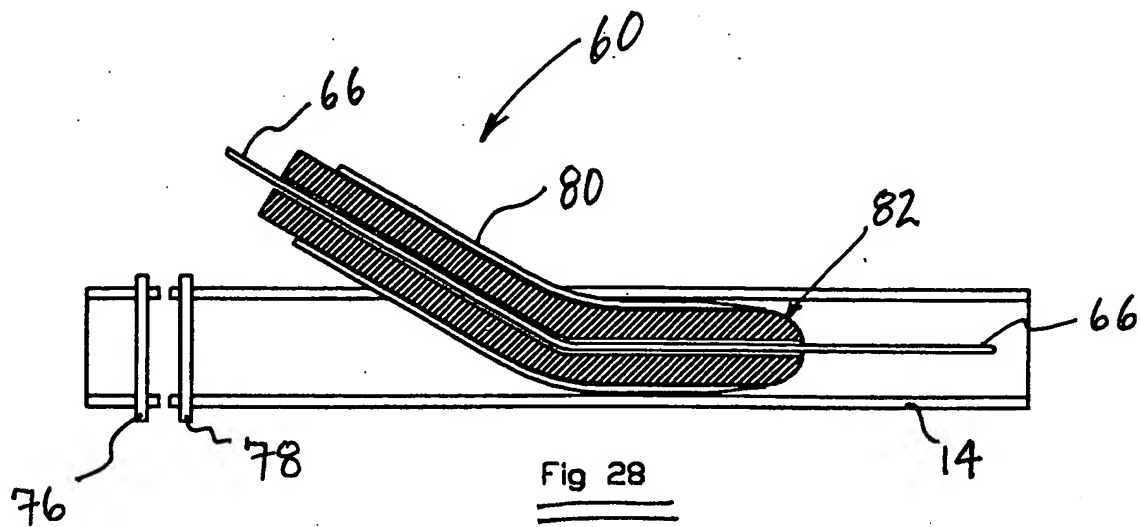
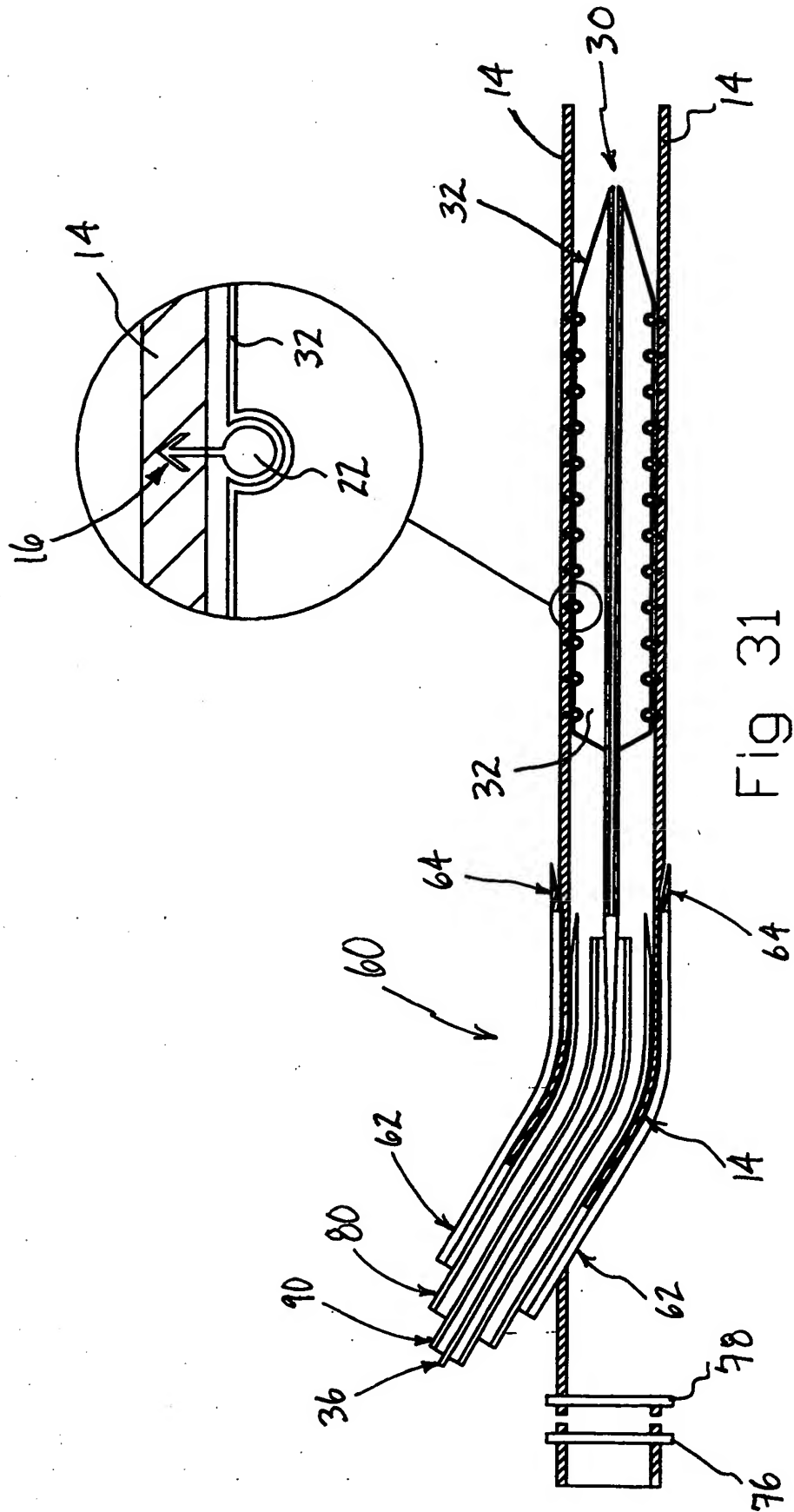


Fig 27





22/48

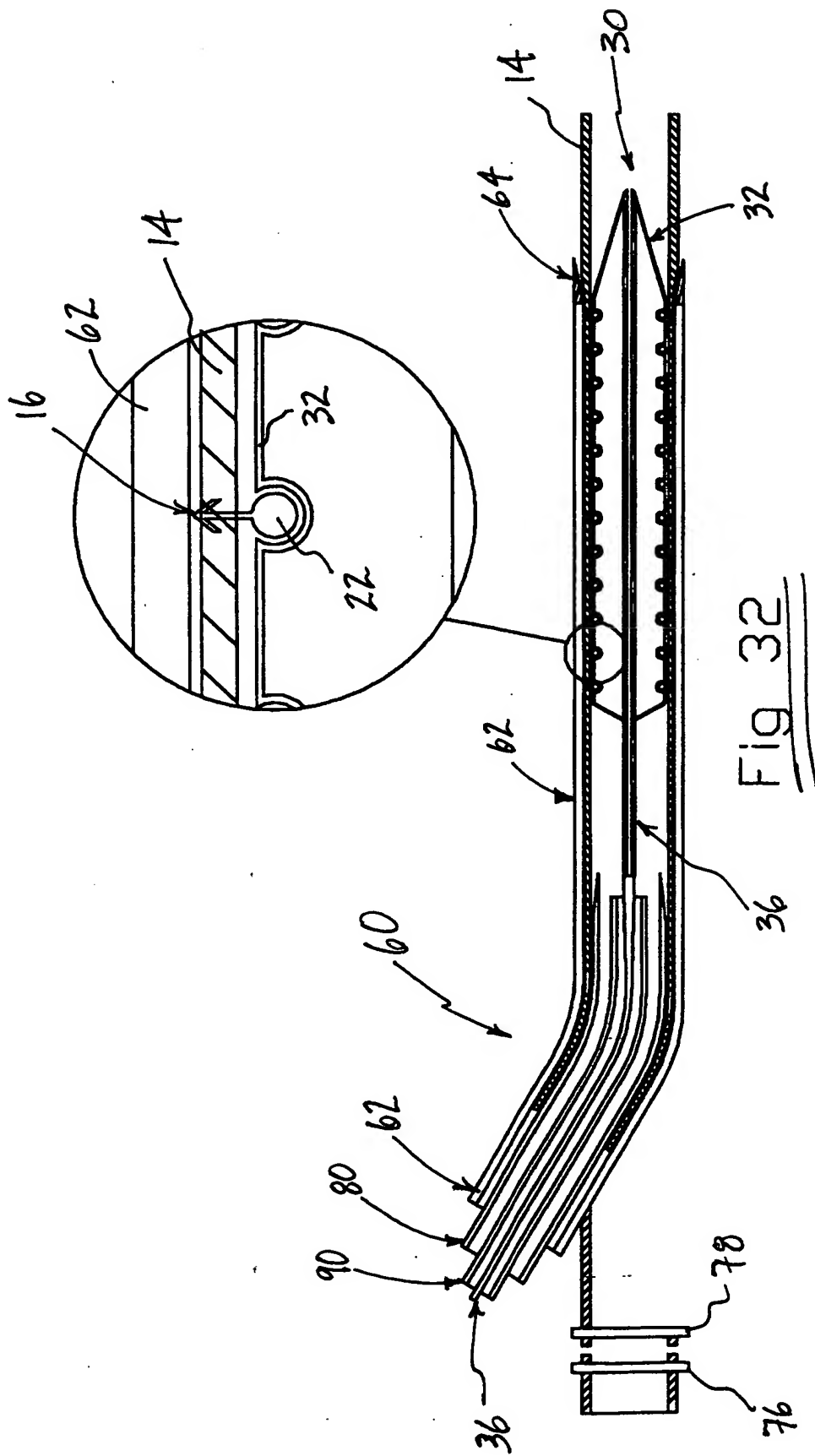


Fig 32

23/48



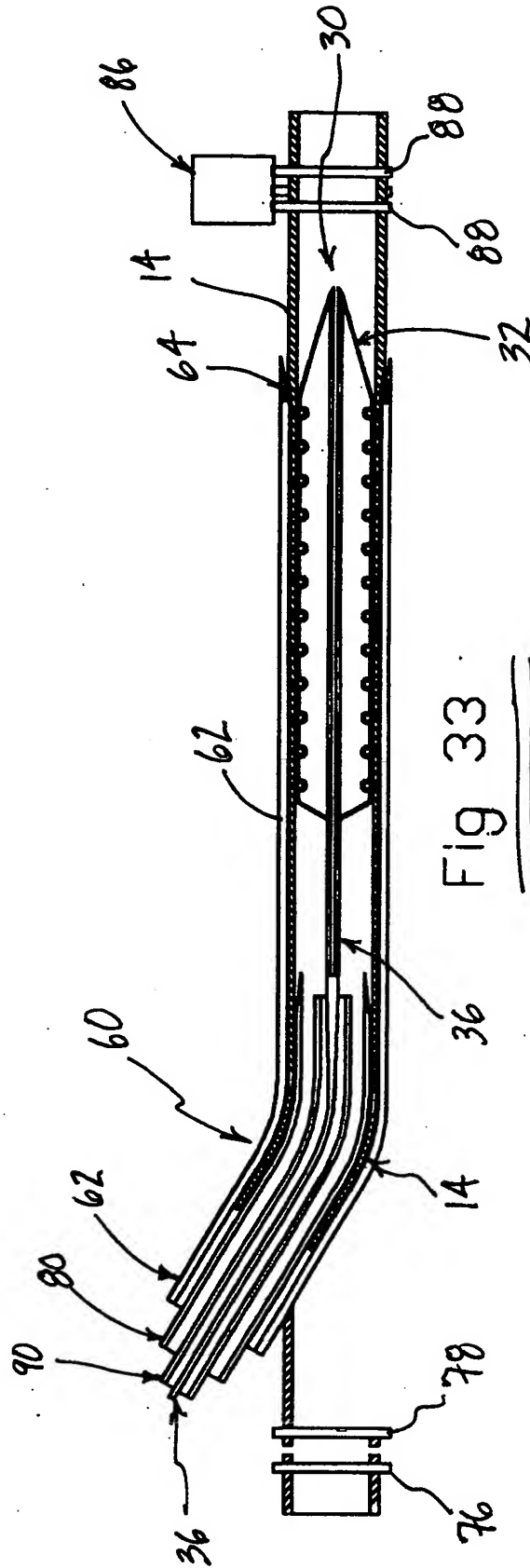
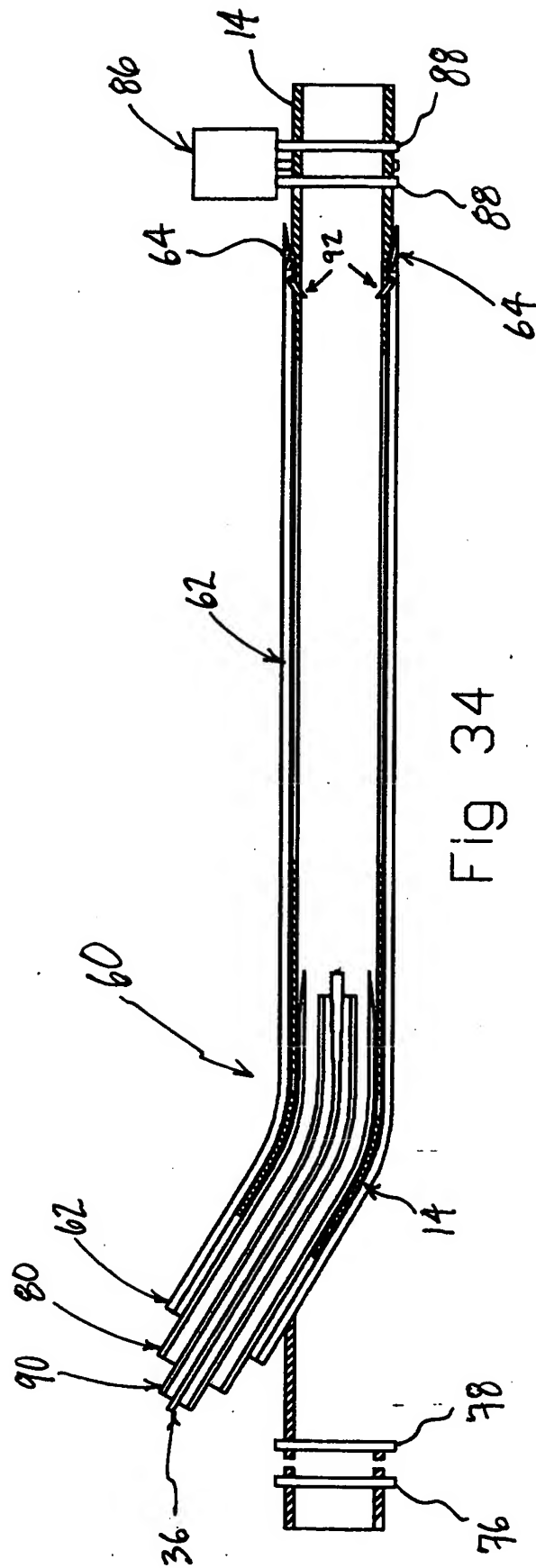


Fig 33

24/48



25/48

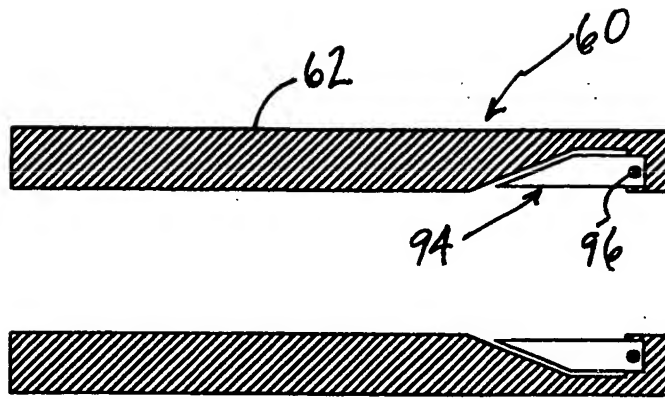


Fig 35

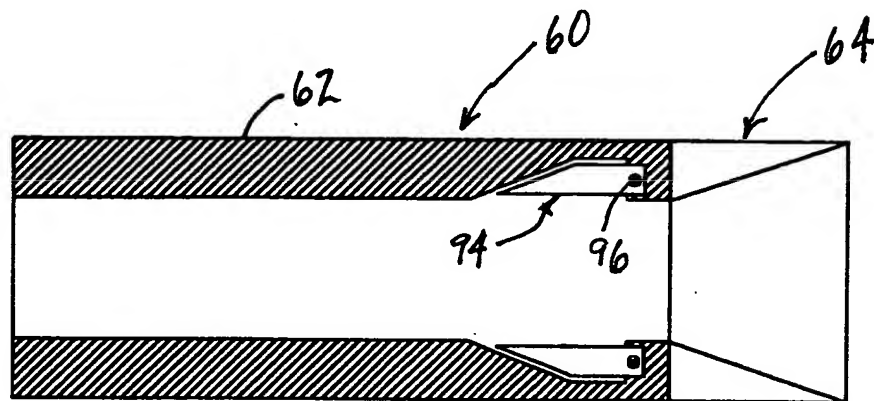


Fig 36

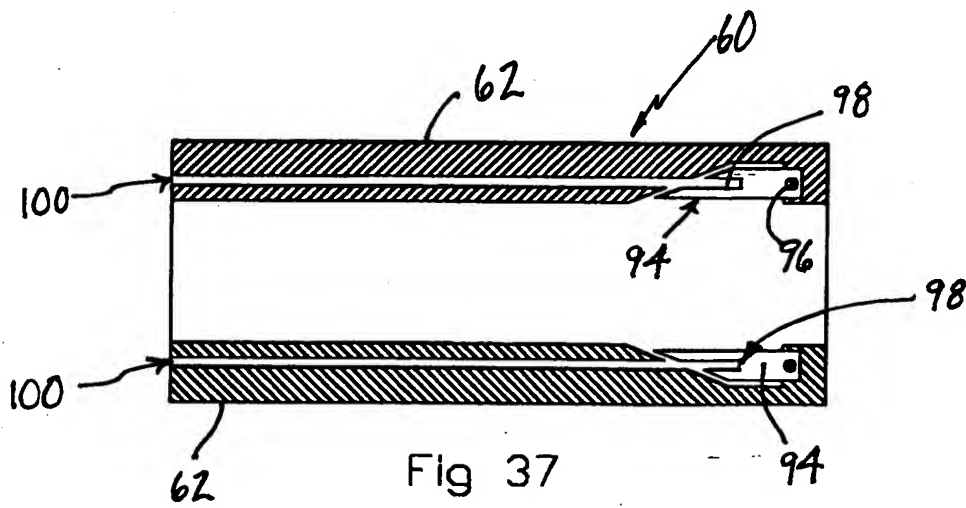


Fig 37

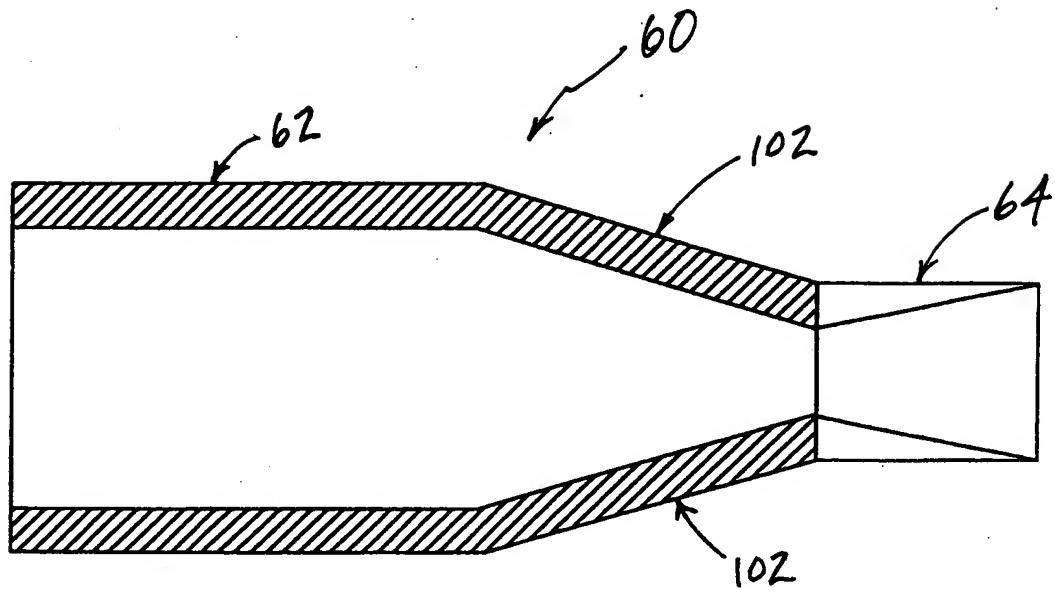


Fig 38

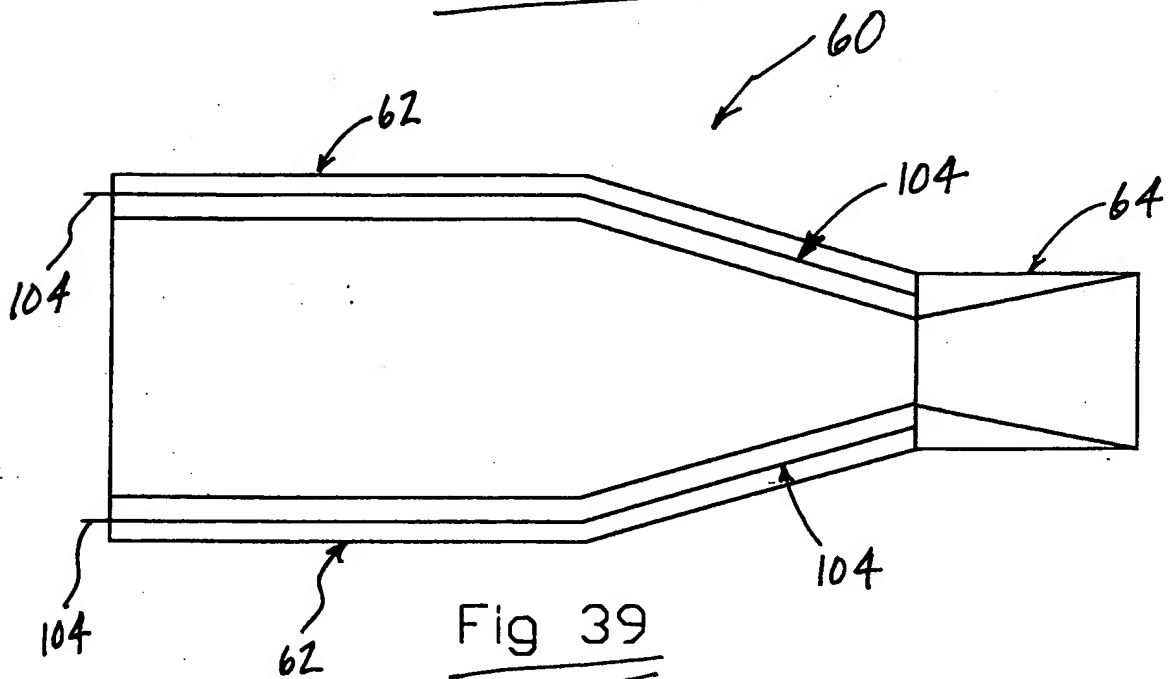


Fig 39

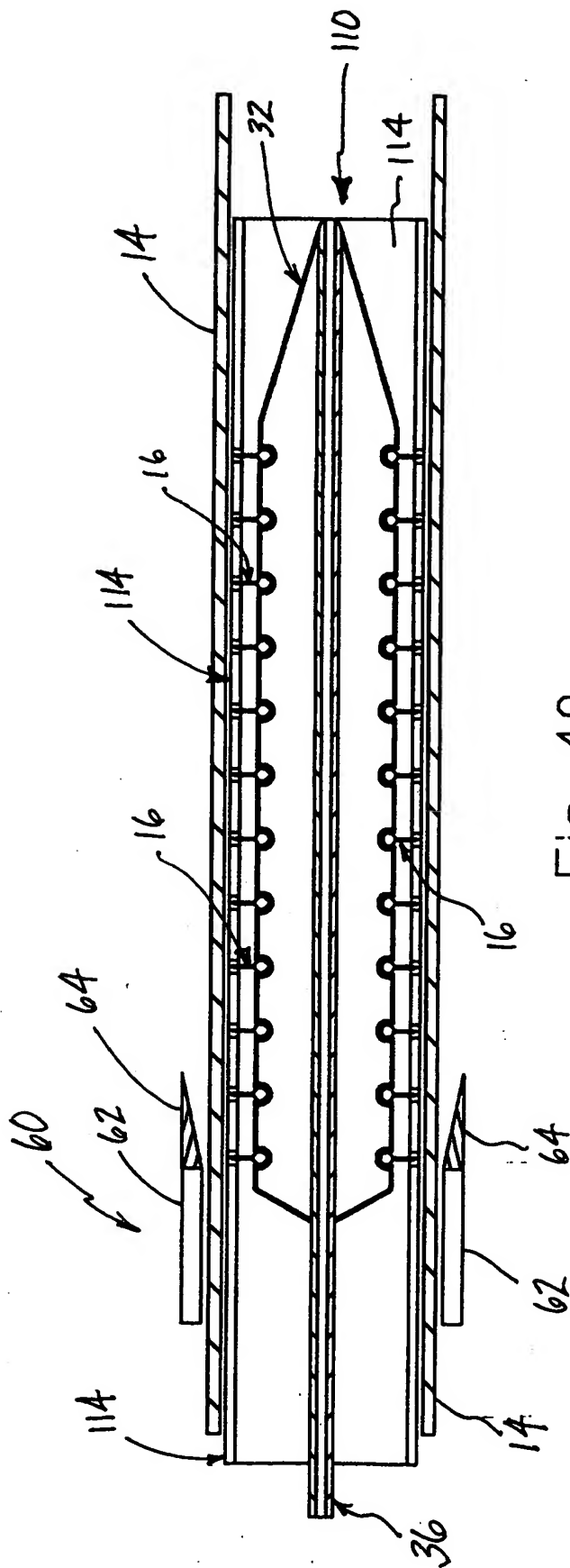
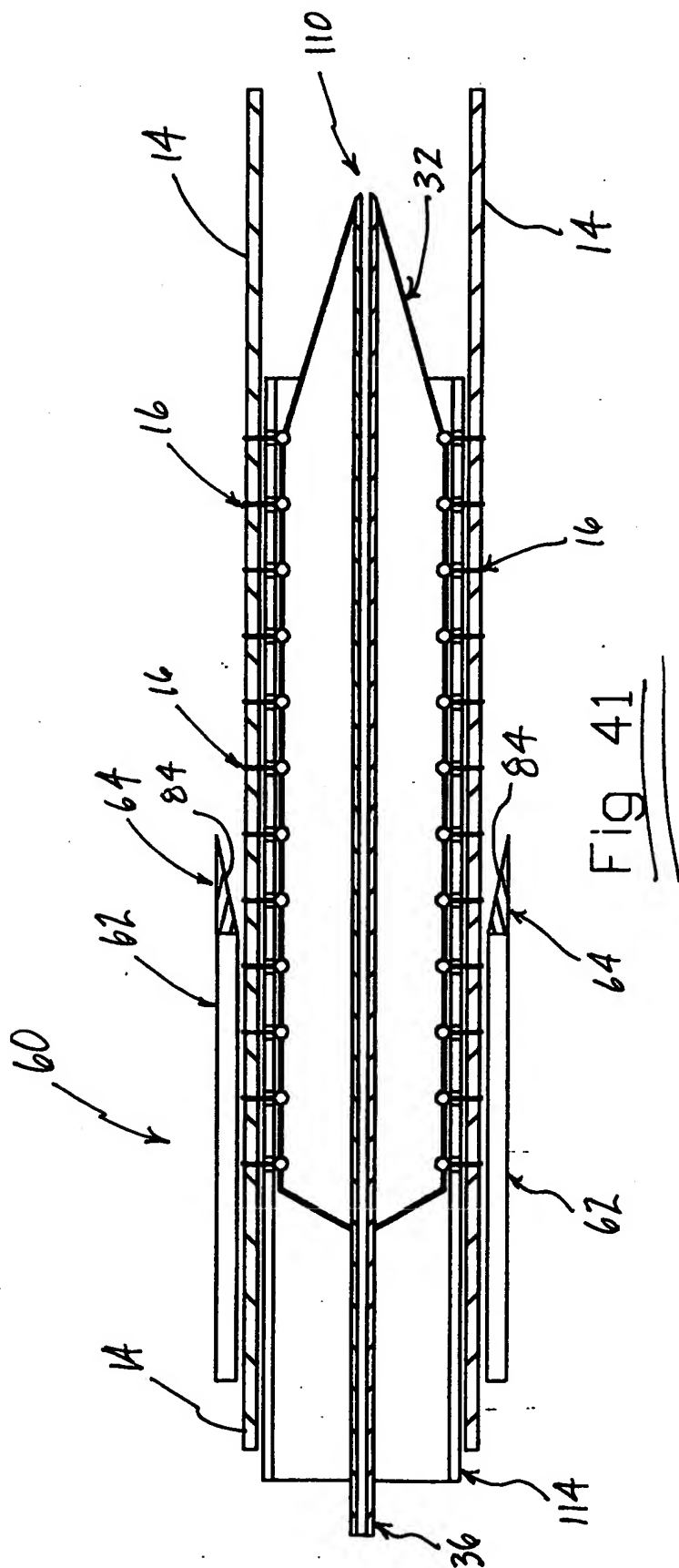


Fig 40

28/48



29/48

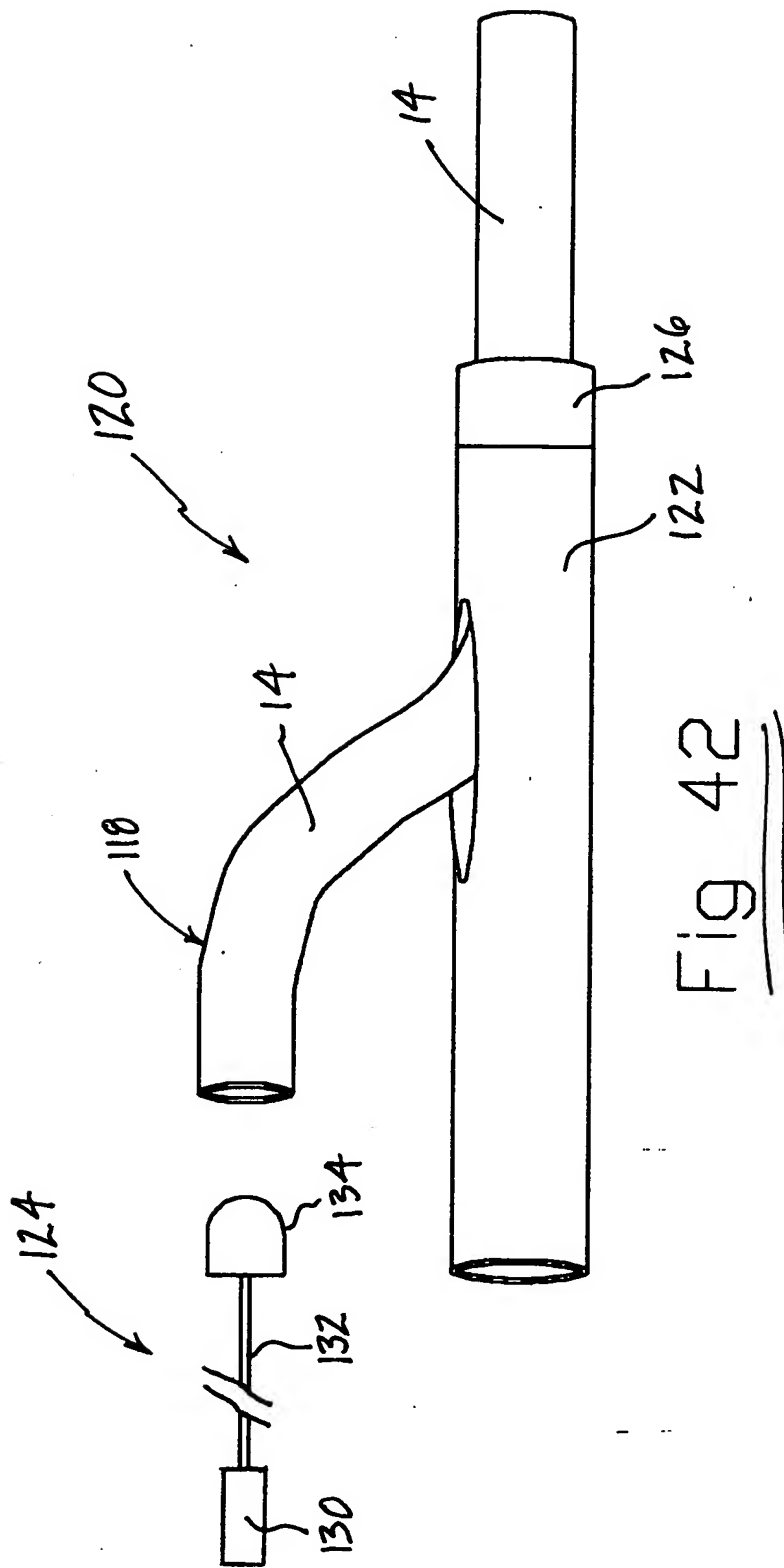
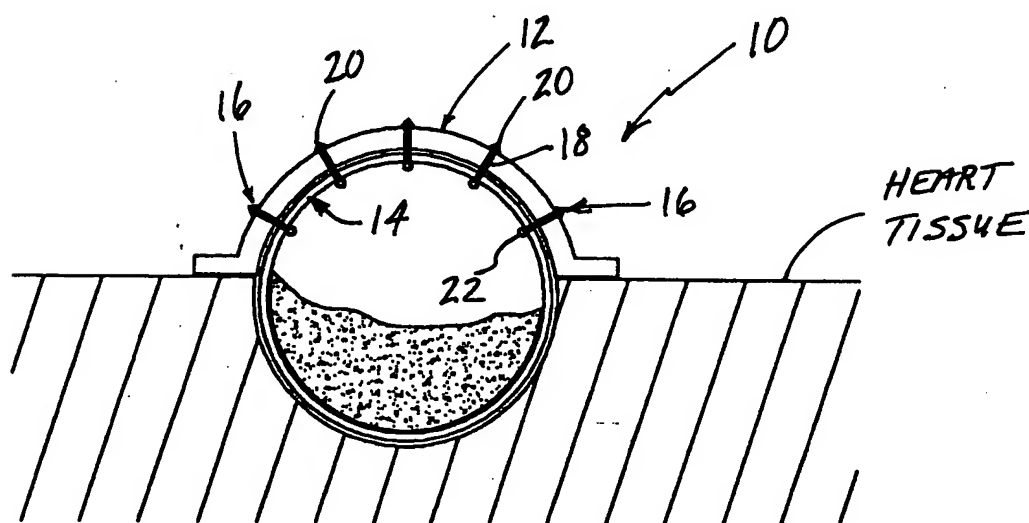
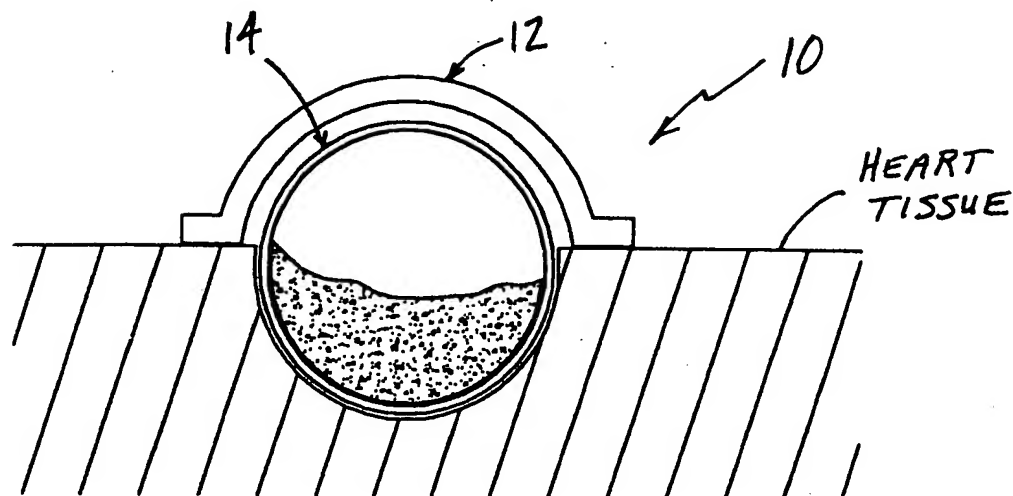


Fig 42

30/48





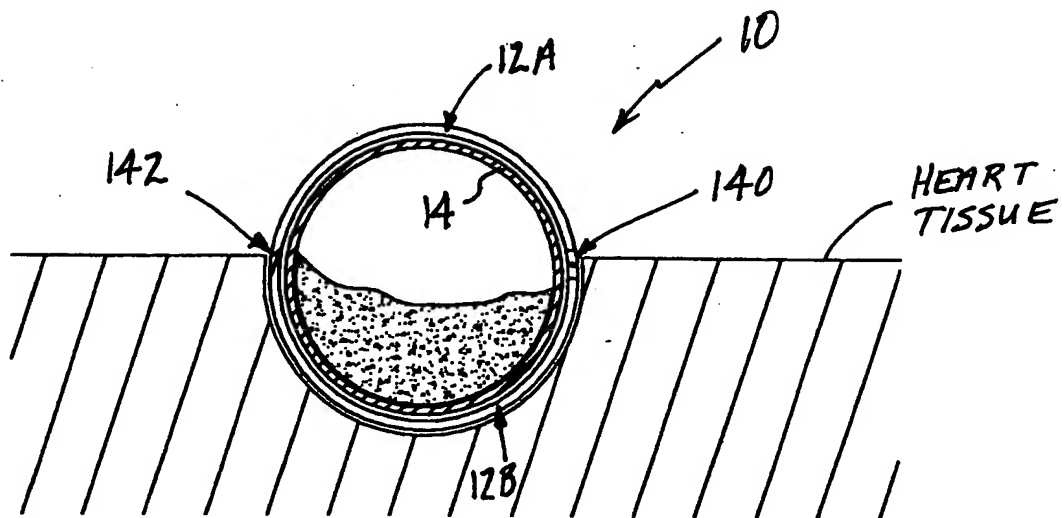


Fig 45

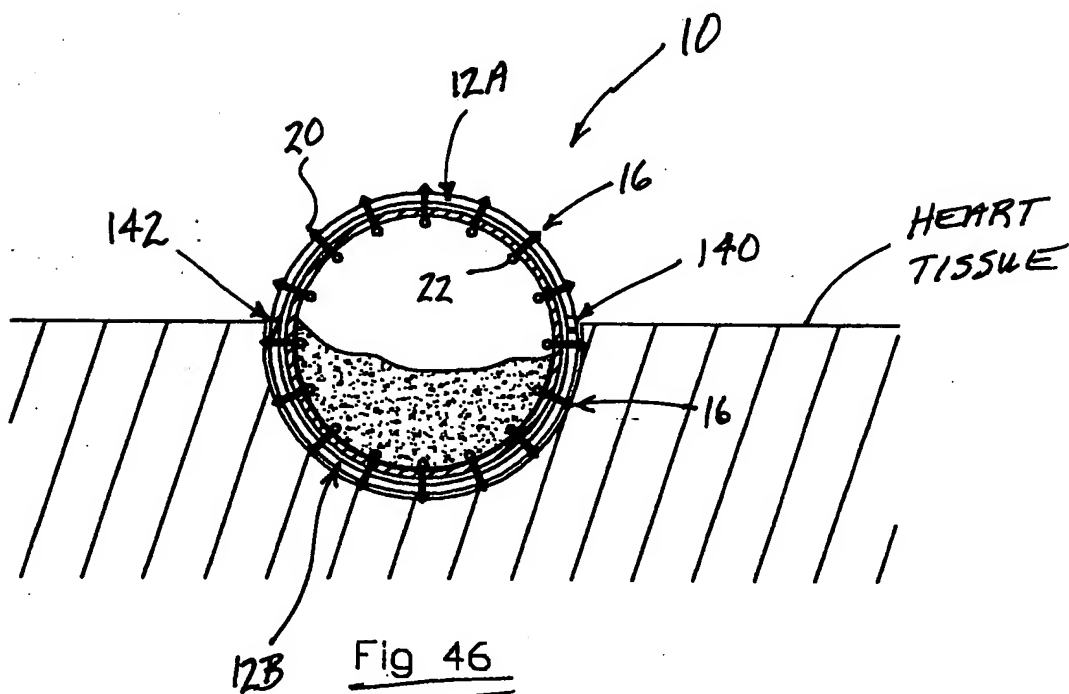


Fig 46

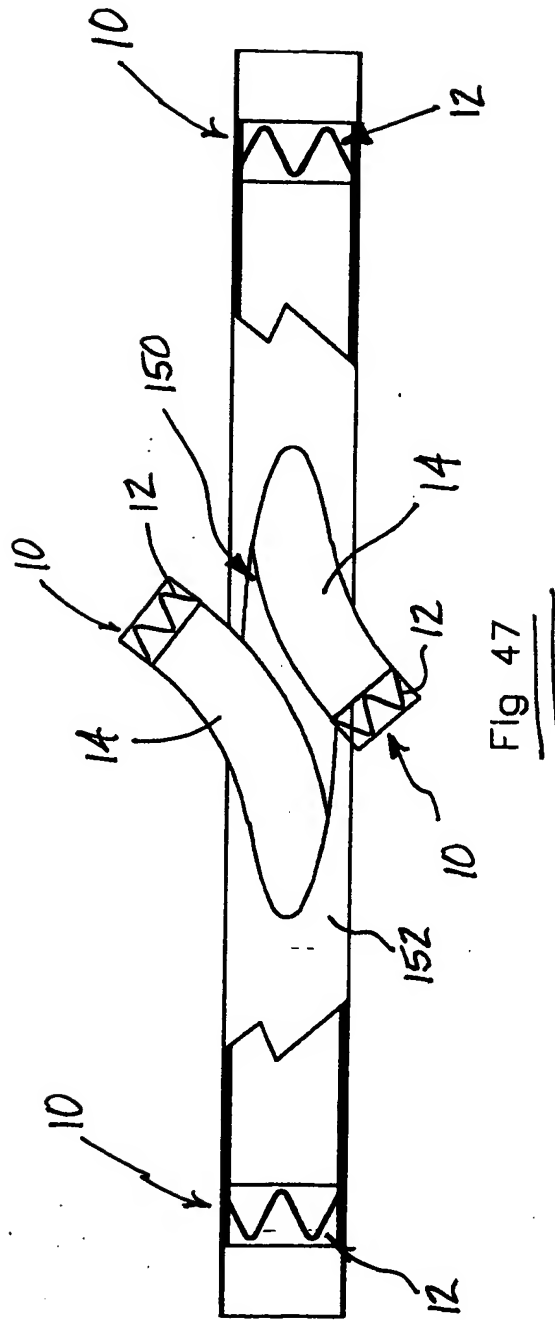
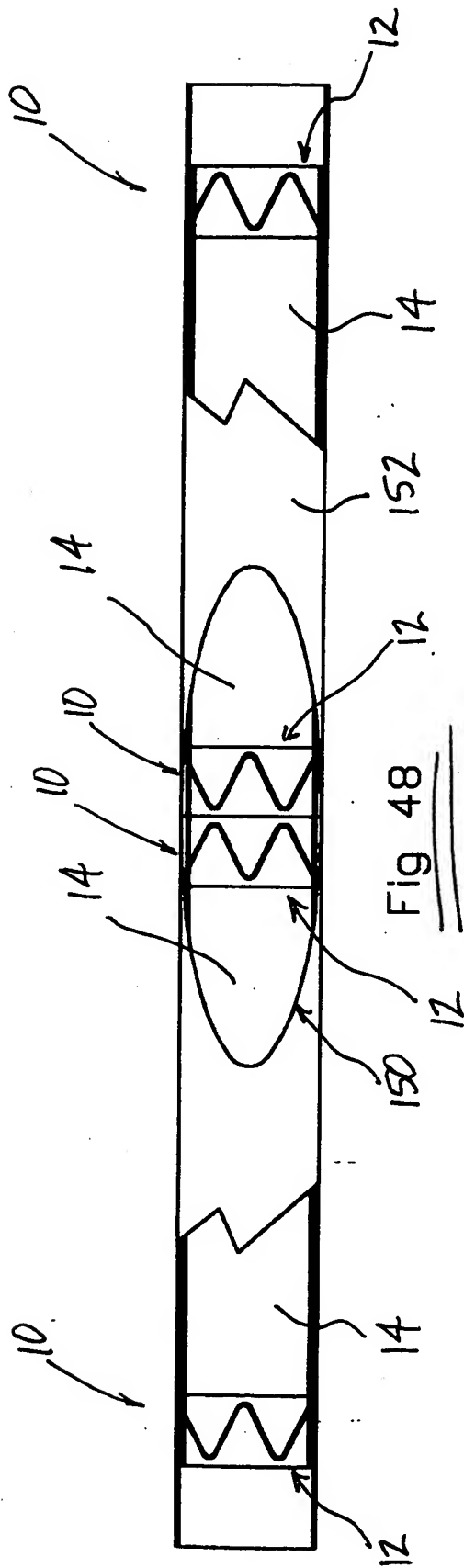
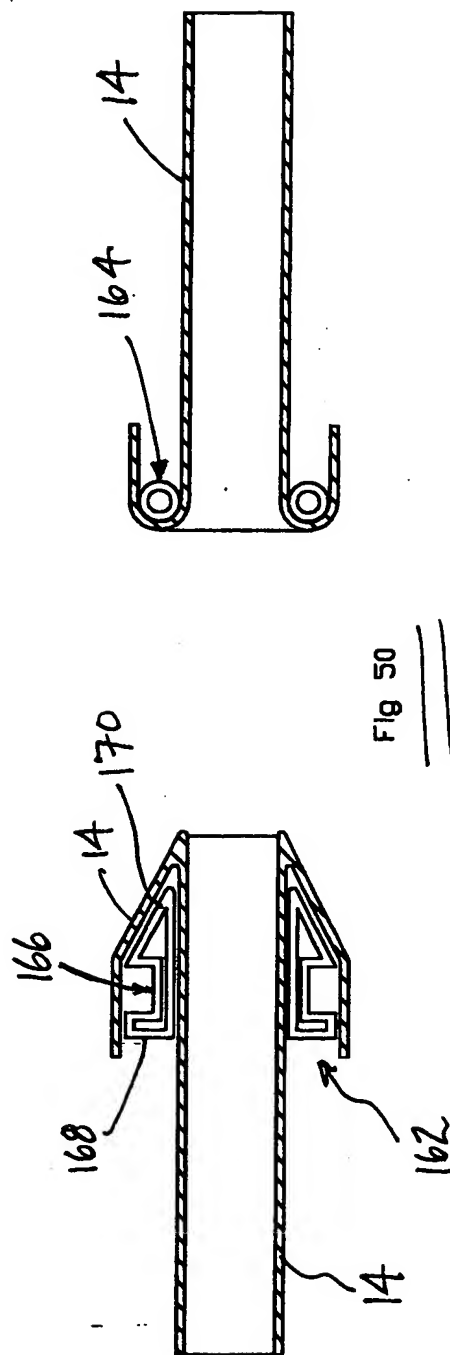
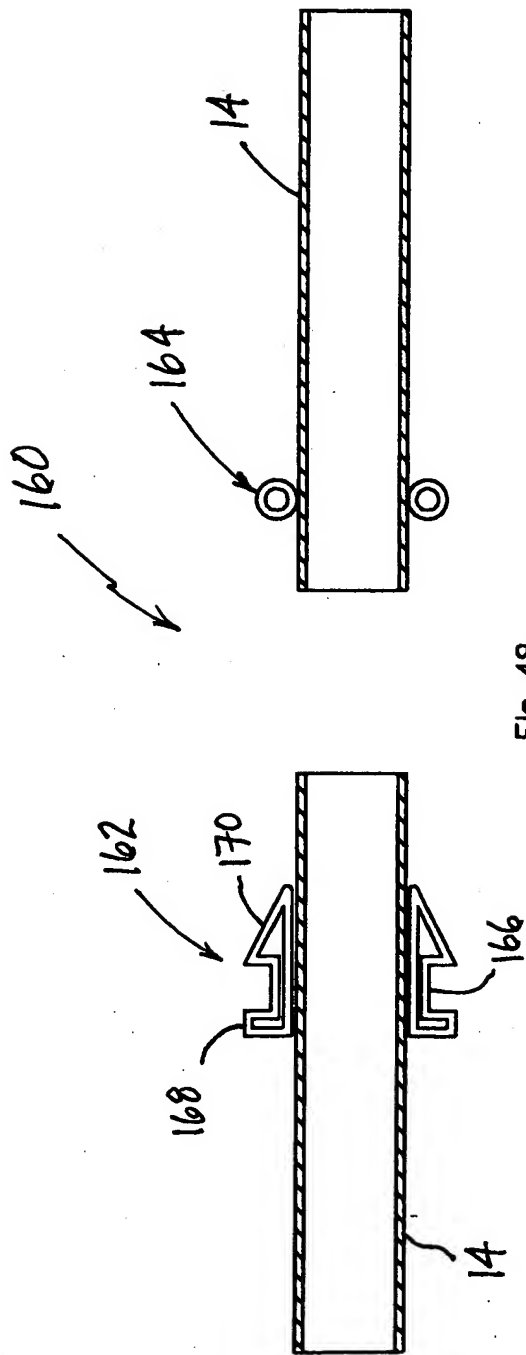


Fig 47

33/48



34/48



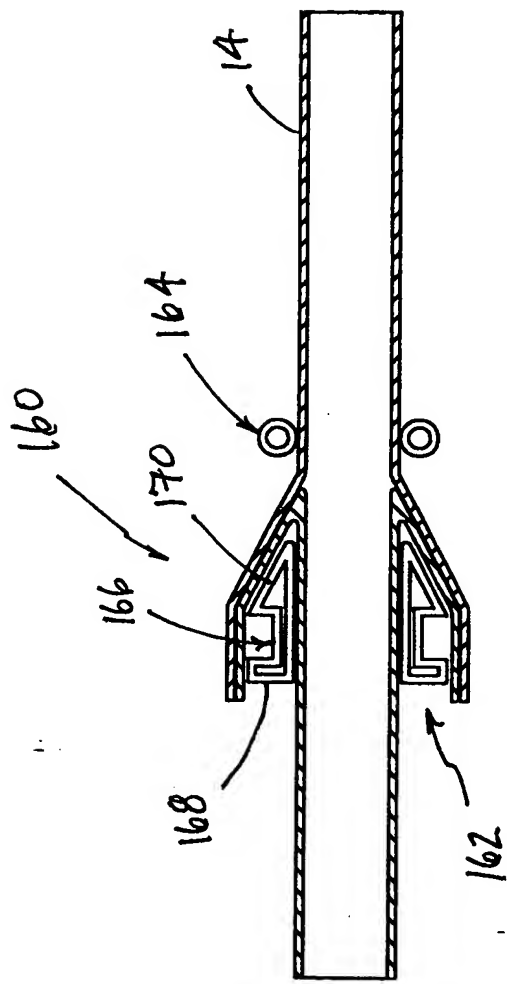


Fig 51

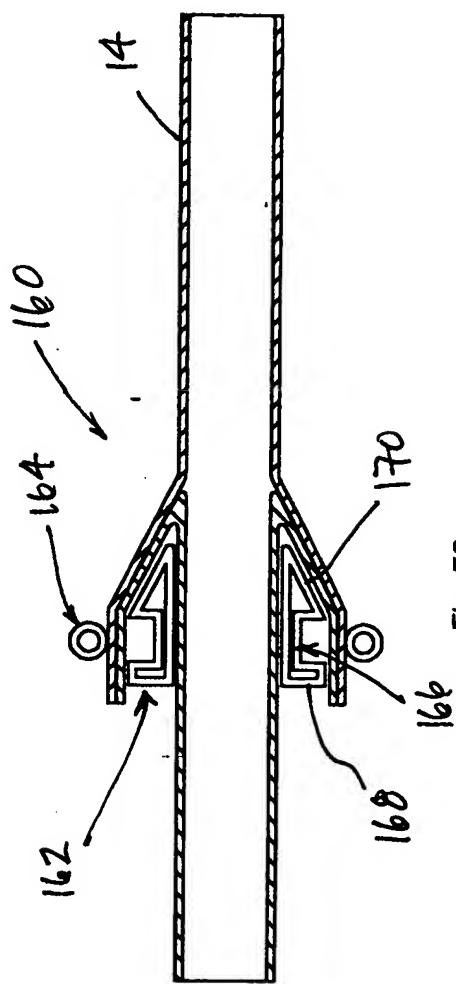
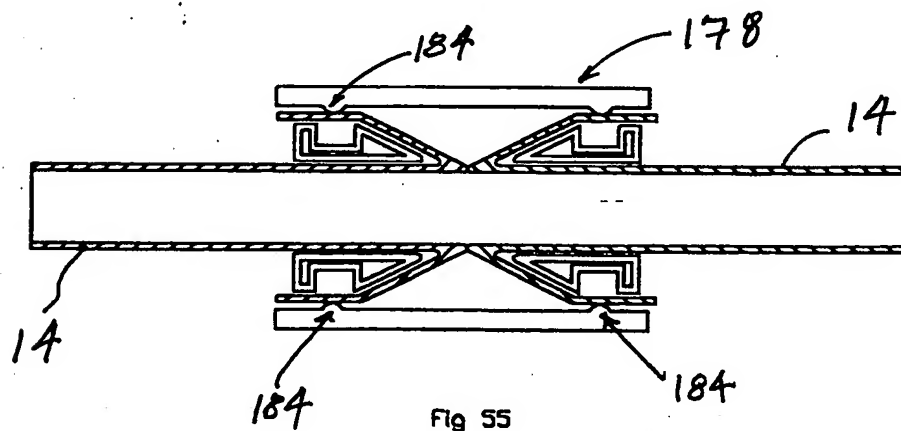
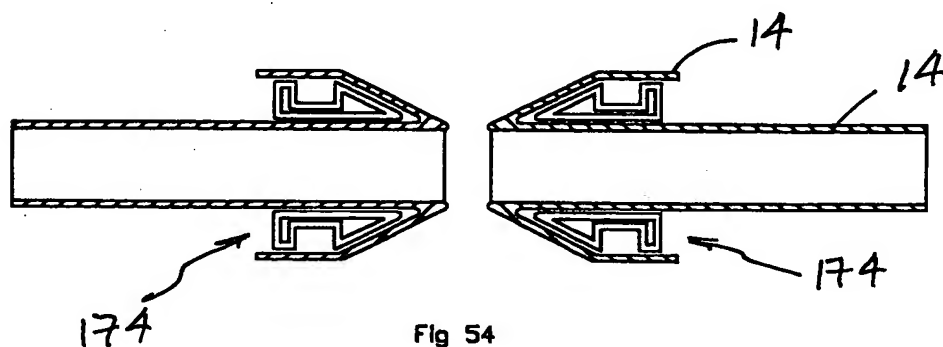
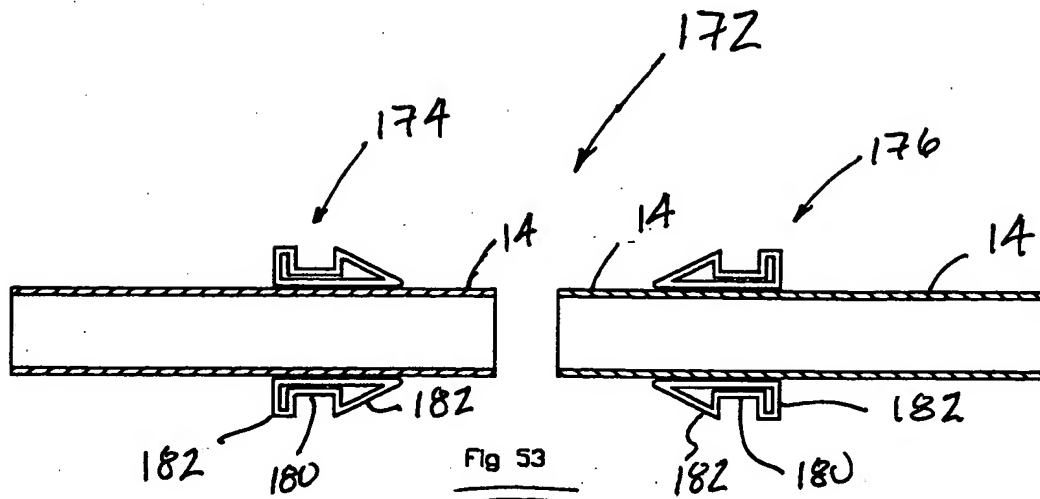


Fig 52

36/48



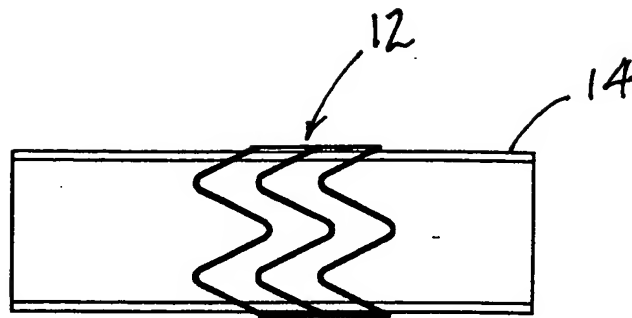


Fig 56

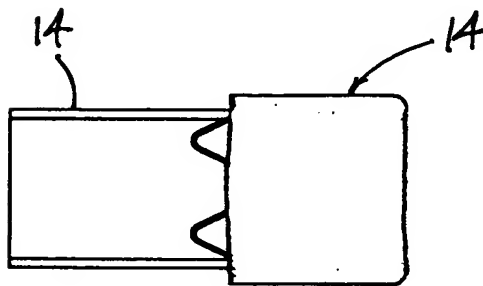


Fig 57

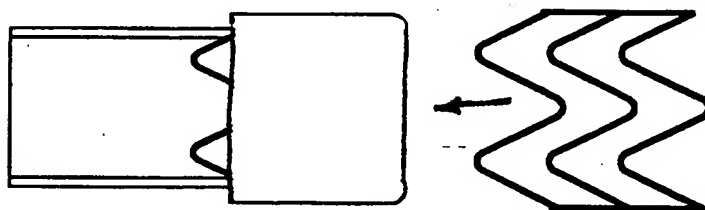


Fig 58

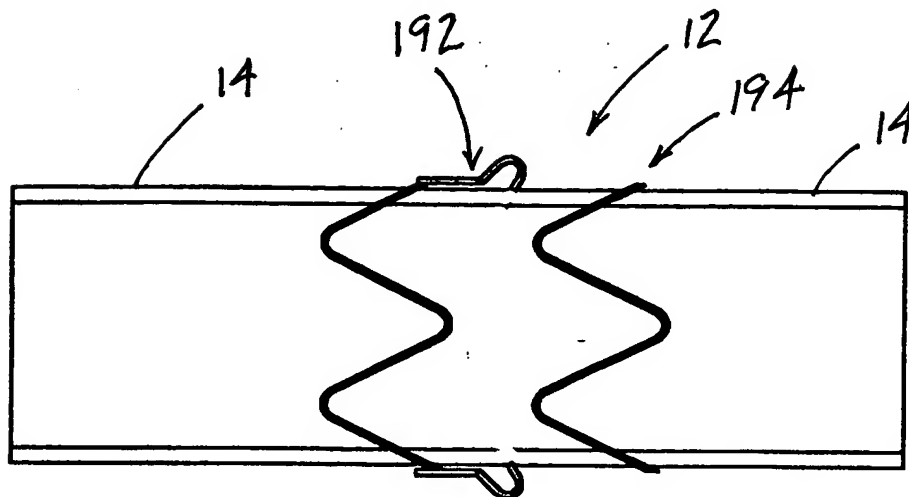


Fig 59

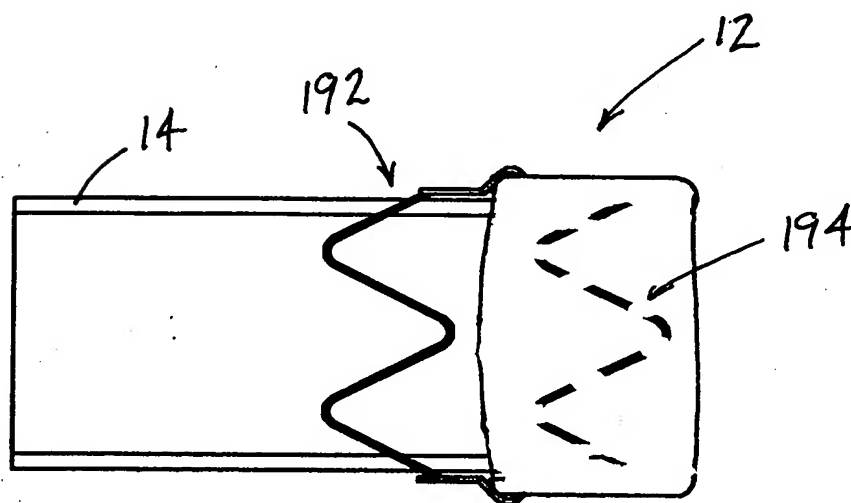


Fig 60

39/48



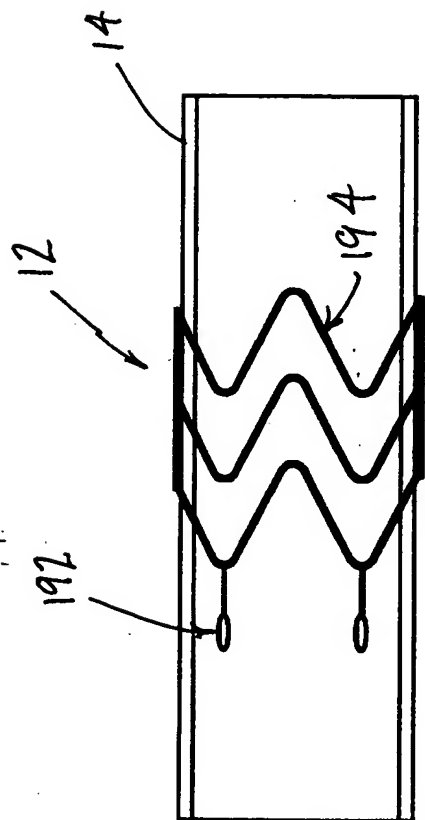


Fig 61

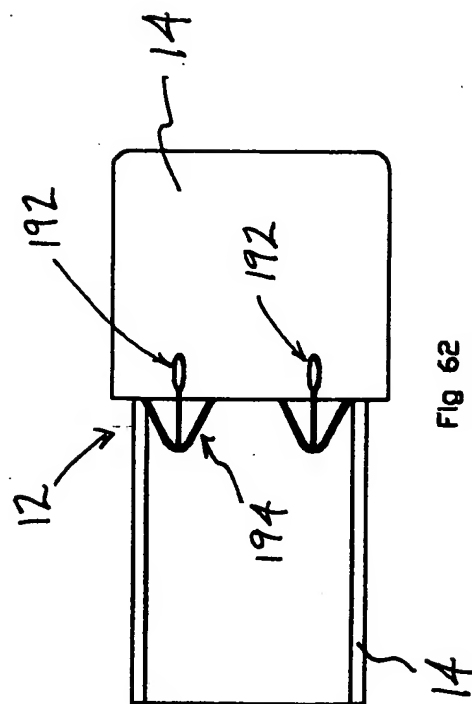


Fig 62

40/48

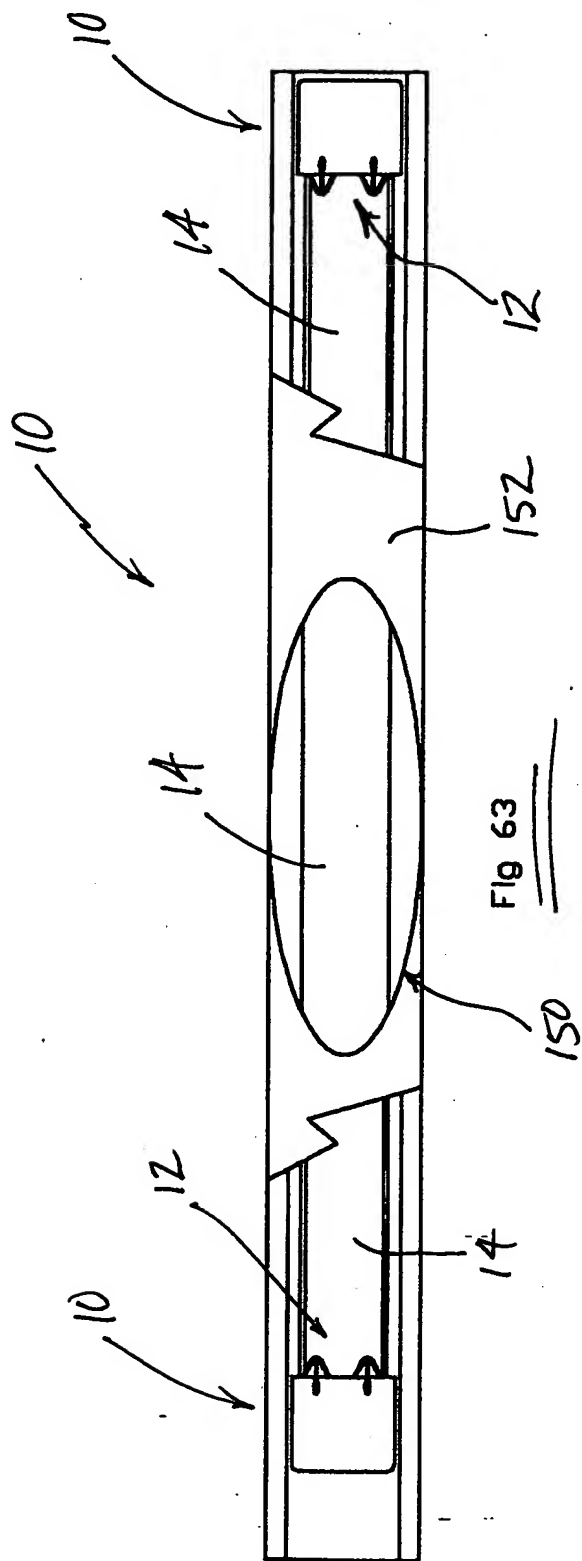


Fig 63

41/48

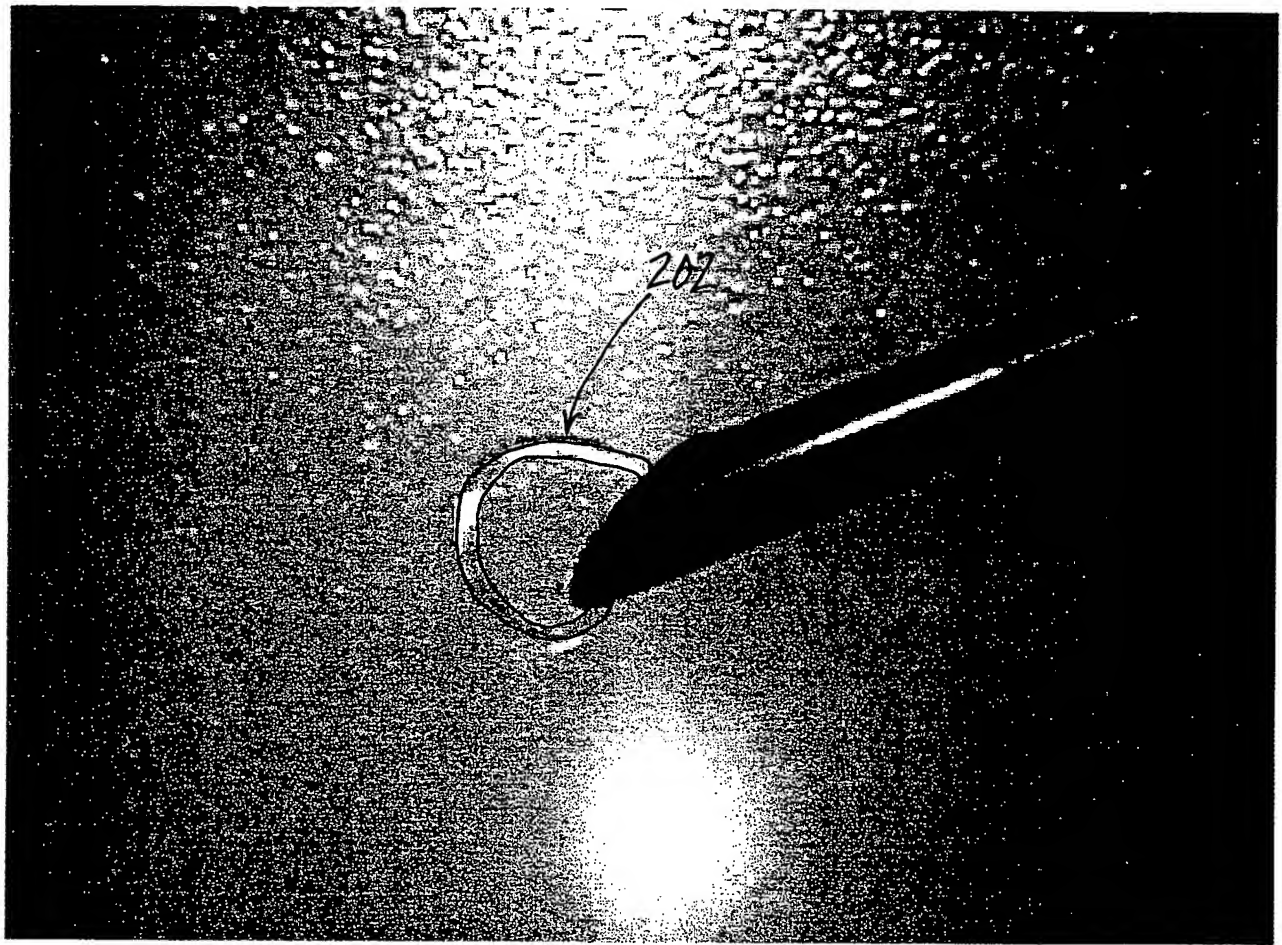


FIG. 64

42/48

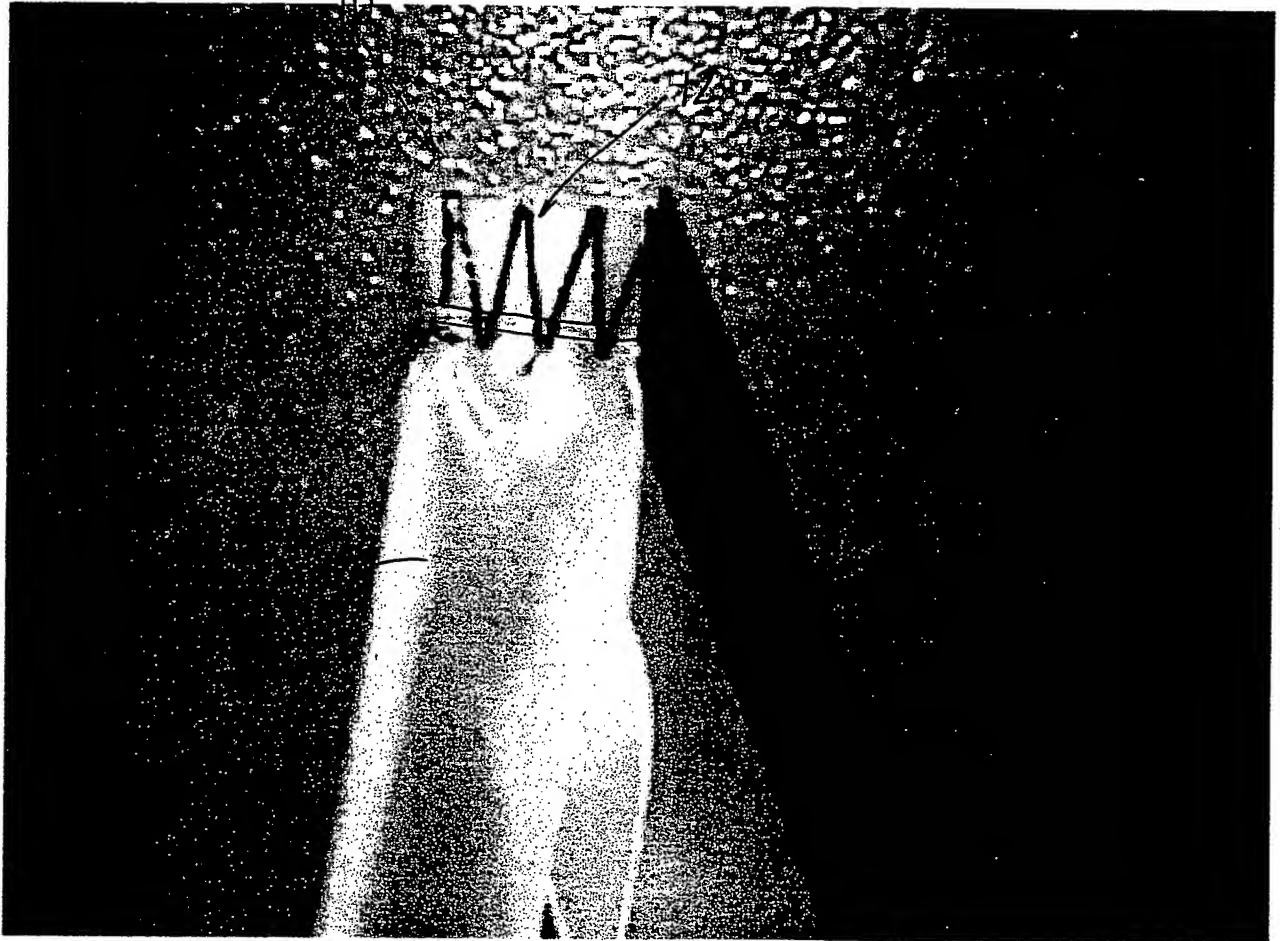


FIG. 65

43/48

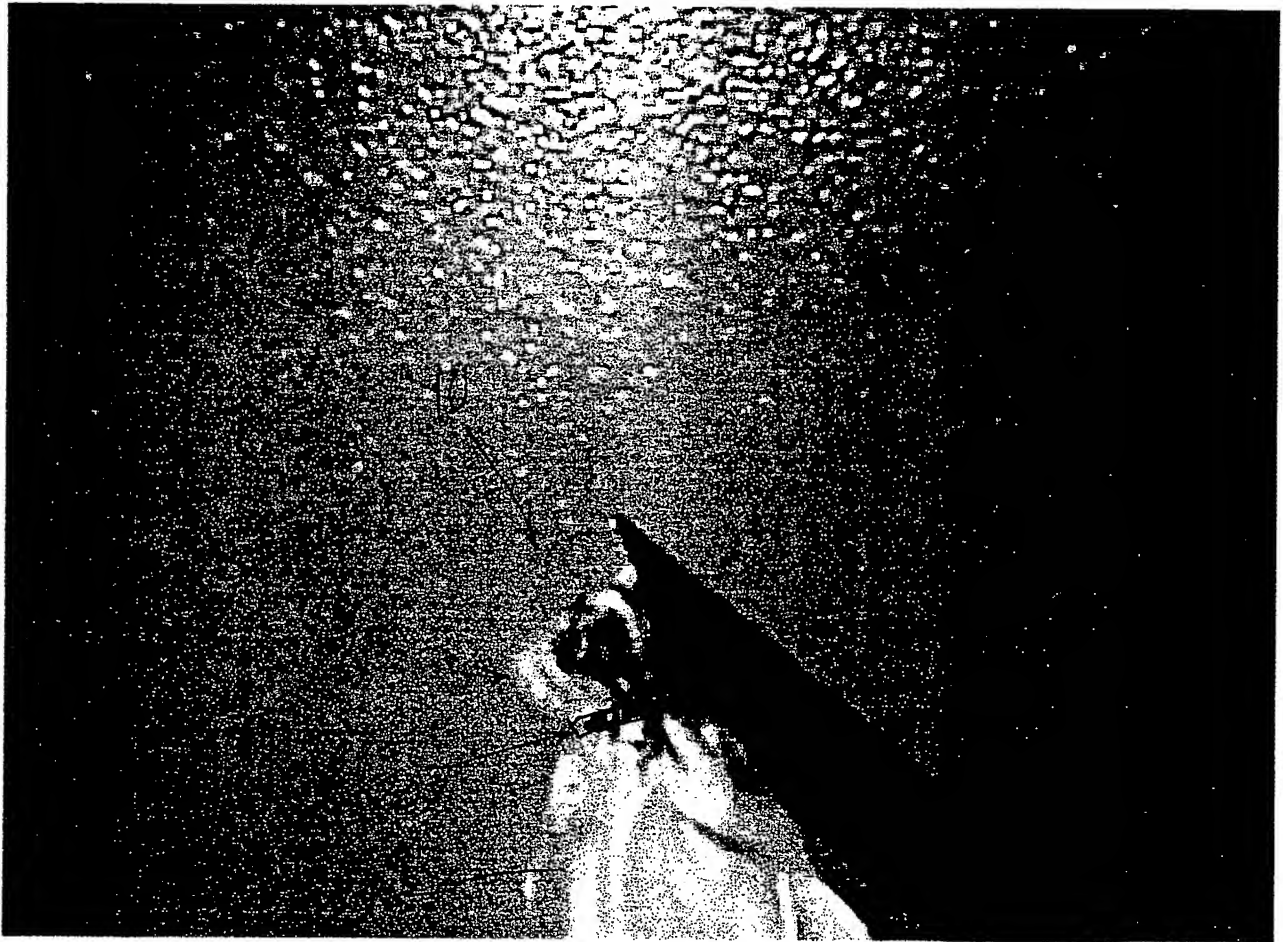


FIG. 66

44/48



FIG. 67

45/48

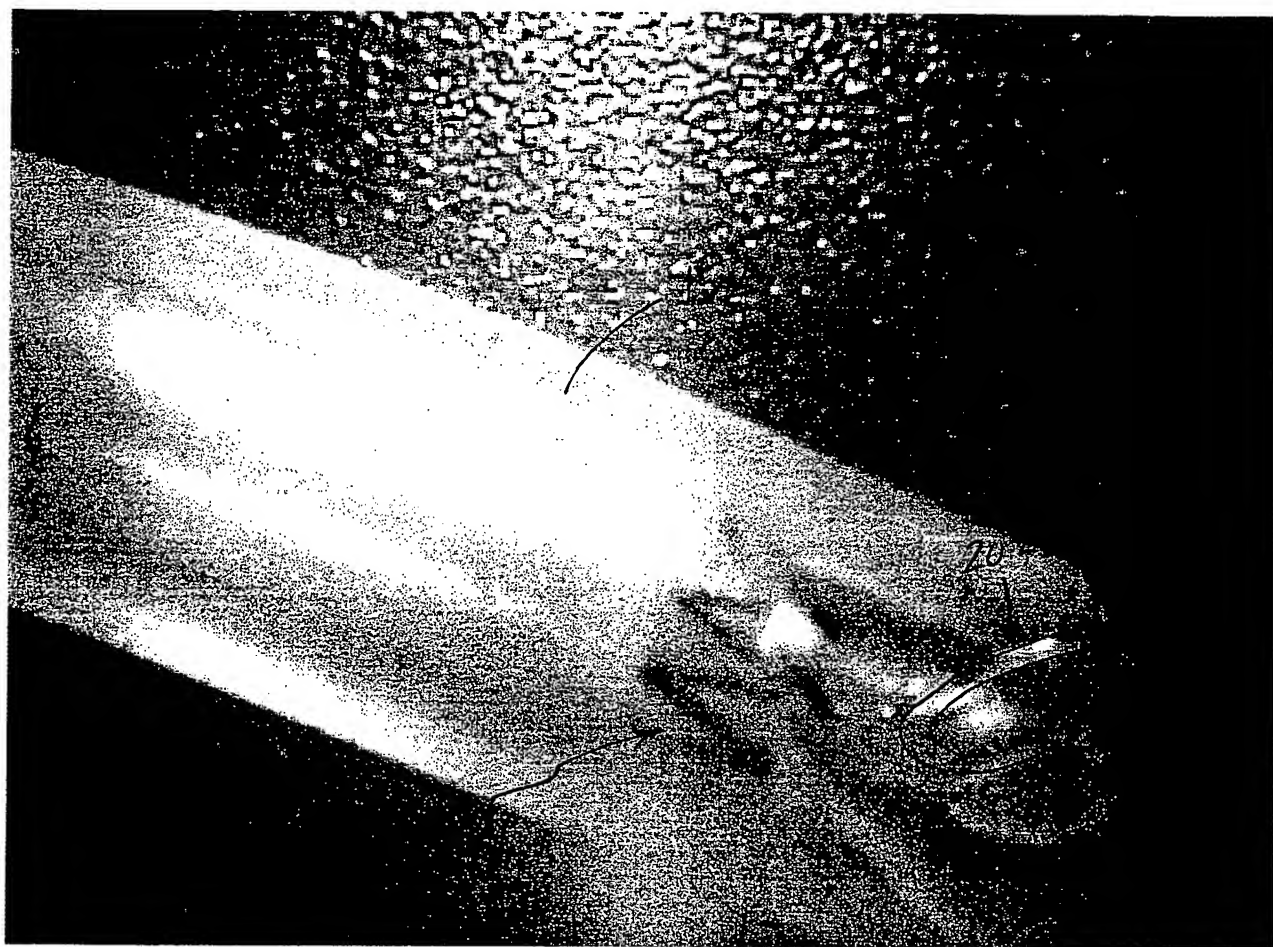


FIG. 68

46/48

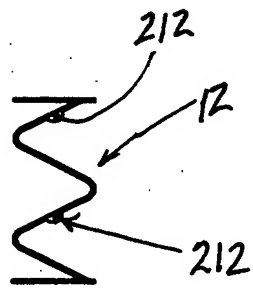


Fig 70

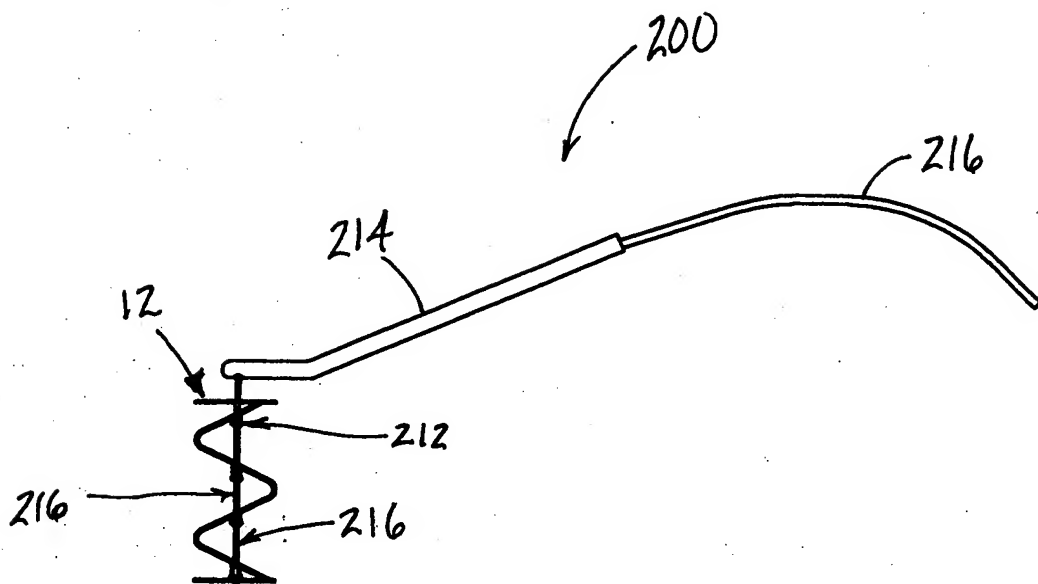


Fig 69



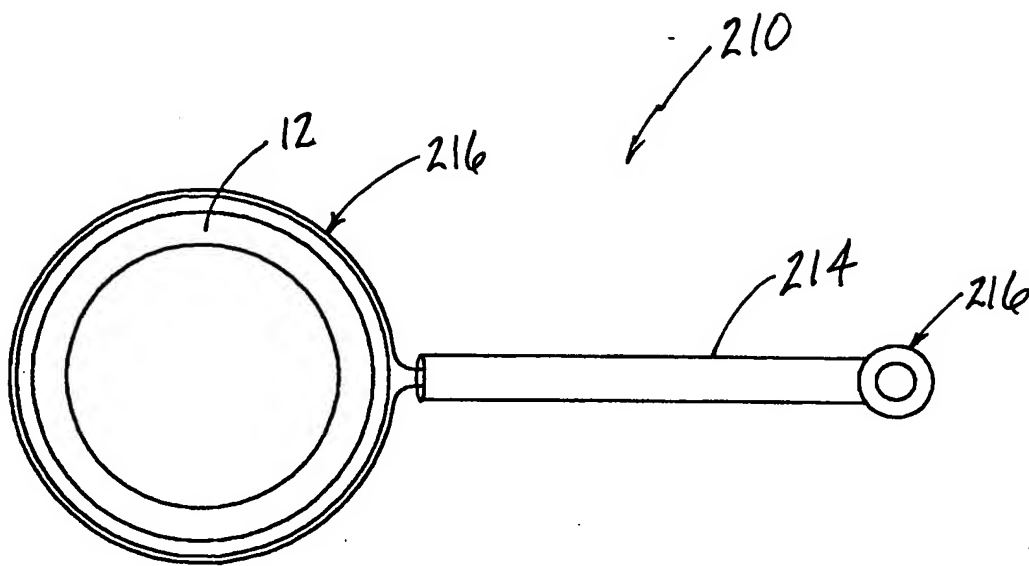


Fig 71

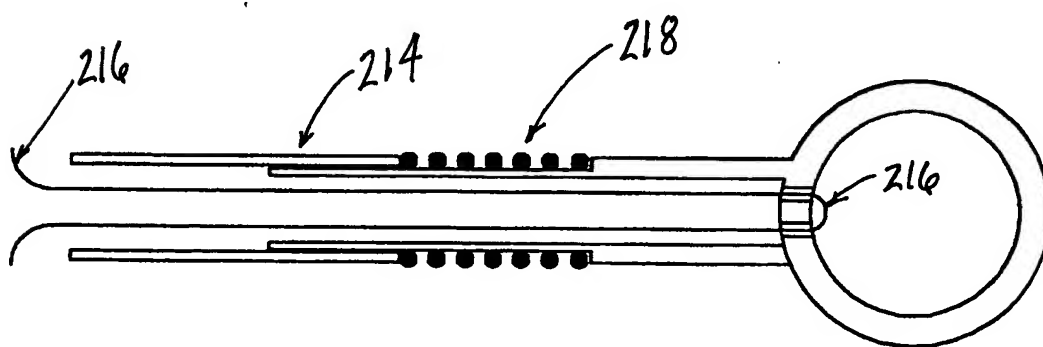


Fig 72